

*Inventors of
The Linotype.*

OTT. MERGENTHALER COMPANY

BALTIMORE, MD.

Mr. Severus

Q735

1250

CATALOGUE A.

OTT MERGENTHALER AND CO.

BALTIMORE, MD

MECHANICAL ENGINEERS AND MACHINISTS.



LINOTYPE PARTS.

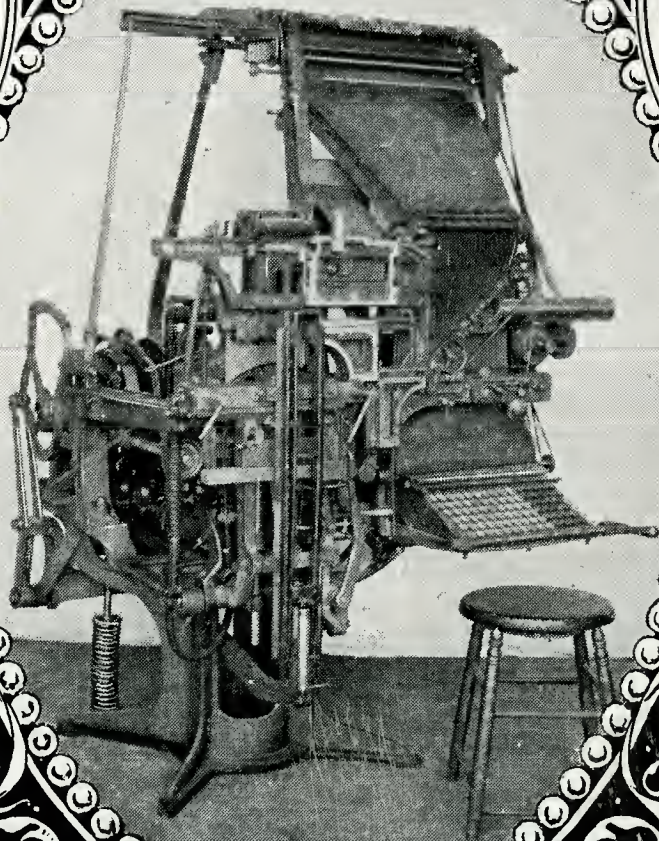
LINOTYPE SUPPLIES

INVENTORS

LINOTYPE
OFFICE IMPLEMENTS.

REPAIRING OF
LINOTYPE MACHINE PARTS.

DEALING IN SECOND HAND
LINOTYPE MACHINES.



LINOTYPE
ATTACHMENTS.

LINOTYPE
IMPROVEMENTS.

LINOTYPE

REPAIRING OF
LINOTYPE MACHINES

REPAIRING OF
LINOTYPE SPACE BANDS.

CABLE ADDRESS:
LINOTYPE, BALTIMORE.

WE MAKE A SPECIALTY OF
DESIGNING AND BUILDING AUTOMATIC MACHINERY OF
EVERY DESCRIPTION, SPECIAL TOOLS, MODELS, ETC.

WE FURNISH

**Linotype Parts,
Supplies, Etc.**

FOR BOTH

BALTIMORE MACHINES

AND

BROOKLYN MACHINES.

COPYRIGHT 1898,
BY OTT. MERGENTHALER & CO.

BALTIMORE, MARYLAND, 1898.

GENTLEMEN:—In presenting this catalogue we desire to announce that we have entered extensively into the manufacture of separate parts for the Linotype machine, an enterprise which we have carried on to a limited extent for several years. Owing to the fact that our dealings in this line have heretofore been transacted through the medium of the Mergenthaler Linotype Co., it is not generally known that we ourselves manufacture and sell directly to users the articles shown in this catalogue, as well as many others.

We, therefore, adopt this means of advertising this fact, and of correcting the general and false impression that all accessories and separate parts of the Linotype must be procured through the same channel through which the machine itself is secured. Repair parts are not protected or monopolized.

The Linotype machine was invented and designed at our works, has been developed and improved by us for years, and we are still engaged upon further improvements. During all this time we have not only manufactured hundreds of them, but have also made a great number of tools designed especially for the accurate and economical production of Linotype parts, and we are, therefore, in a position to furnish the best of this class of work, and guarantee that all supplies, etc., purchased of us will be interchangeable, whether for Baltimore or Brooklyn made machines.

As the Linotype machine (as a whole) will be controlled by a monopoly for several years to come, we do not at present build new machines, but we handle second-hand ones, and make such new parts, etc., as experience has shown to be most liable to breakage and wear, also those attachments, accessories, etc., which are more or less needed in every Linotype office, and which are not covered by the patents of the Mergenthaler Linotype Co.

We have not illustrated each and every part of the machine, but have shown all the essentials, classifying and arranging them in a manner both convenient and comprehensive.

We also give views of the various departments of our works, where, in addition to the manufacture of Linotype supplies, we conduct a general machine business, giving particular attention to designing and making automatic machinery of every description, special tools, models, etc.

We solicit the patronage of every office using the Linotype, feeling sure that those who avail themselves of the benefit of our vast experience will be thoroughly satisfied.

Very respectfully,

OTT. MERGENTHALER & CO.,

C. MUEHLEISEN, Manager.

ADDRESS ALL ORDERS DIRECT TO
OTT. MERGENTHALER & CO.,
BALTIMORE, MD.

ILLUSTRATED
CATALOGUE

OF

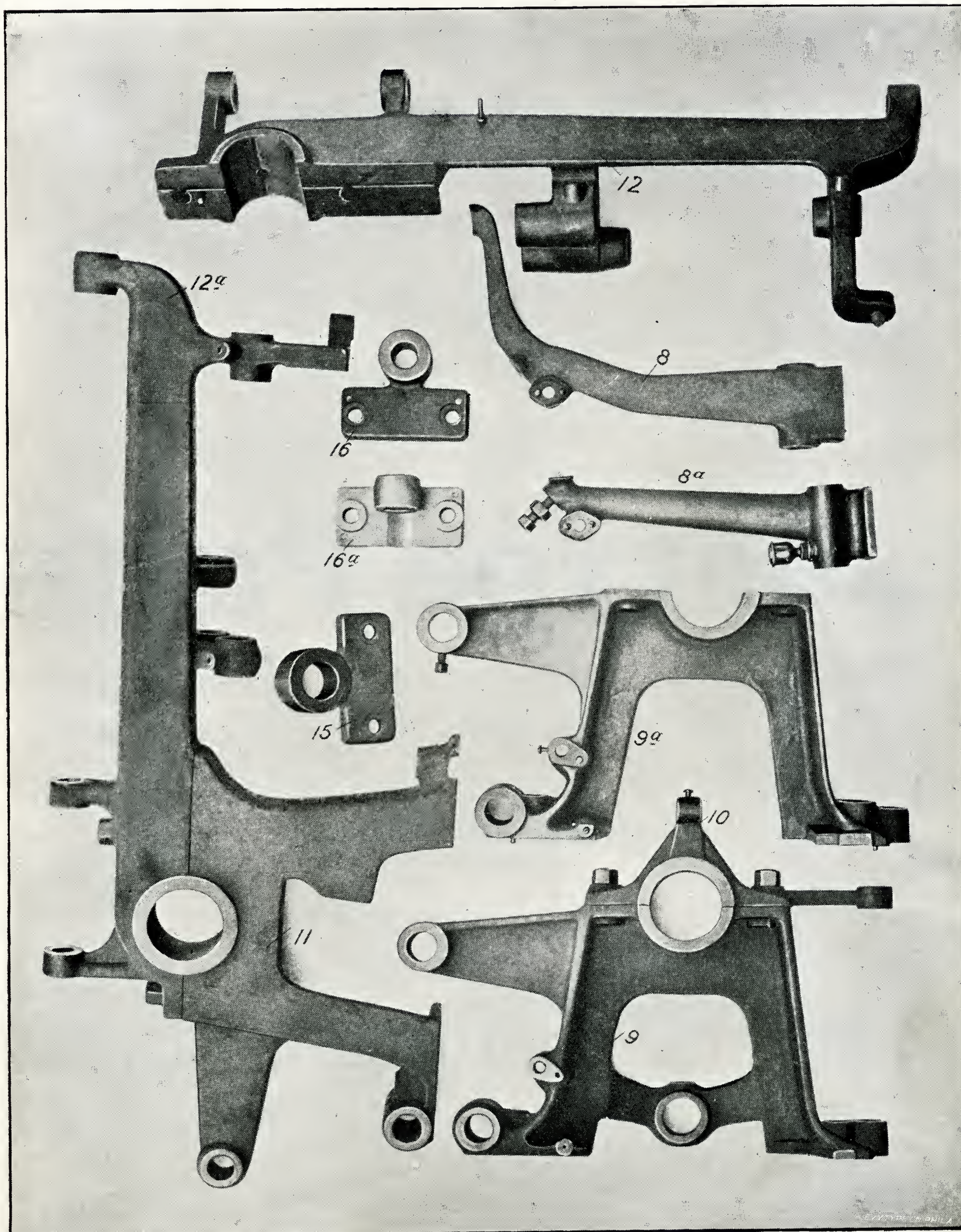
Linotype Parts

Manufactured and Sold by

Ott. Mergenthaler & Co.,

Baltimore, Md., U. S. A.

Sheet A.



Sheet A.

- 8. Magazine Support.
- 8a. Magazine Support (new No. 134).
- 9. Cam Shaft Bracket, right hand.
- 9a. Cam Shaft Bracket, right hand.
- 10. Cap for Right Hand Bracket.
- 11. Cam Shaft Bracket, left hand (new No. 135).
- 12. Mold Gear Arm.
- 12a. Mold Gear Arm (new No. 146).
- 15. Driving Shaft Bearing, right hand.
- 16. Driving Shaft Bearing, left hand.
- 16a. Driving Shaft Bearing, left hand (new No. 131).
- 131. Same as 16a.
- 134. Same as 8a.
- 135. Same as 11.
- 146. Same as 12a.

In ordering No. 9 mention it when it is to hold an electric motor.

For Cams and Friction Clutch see sheet C, page 35.

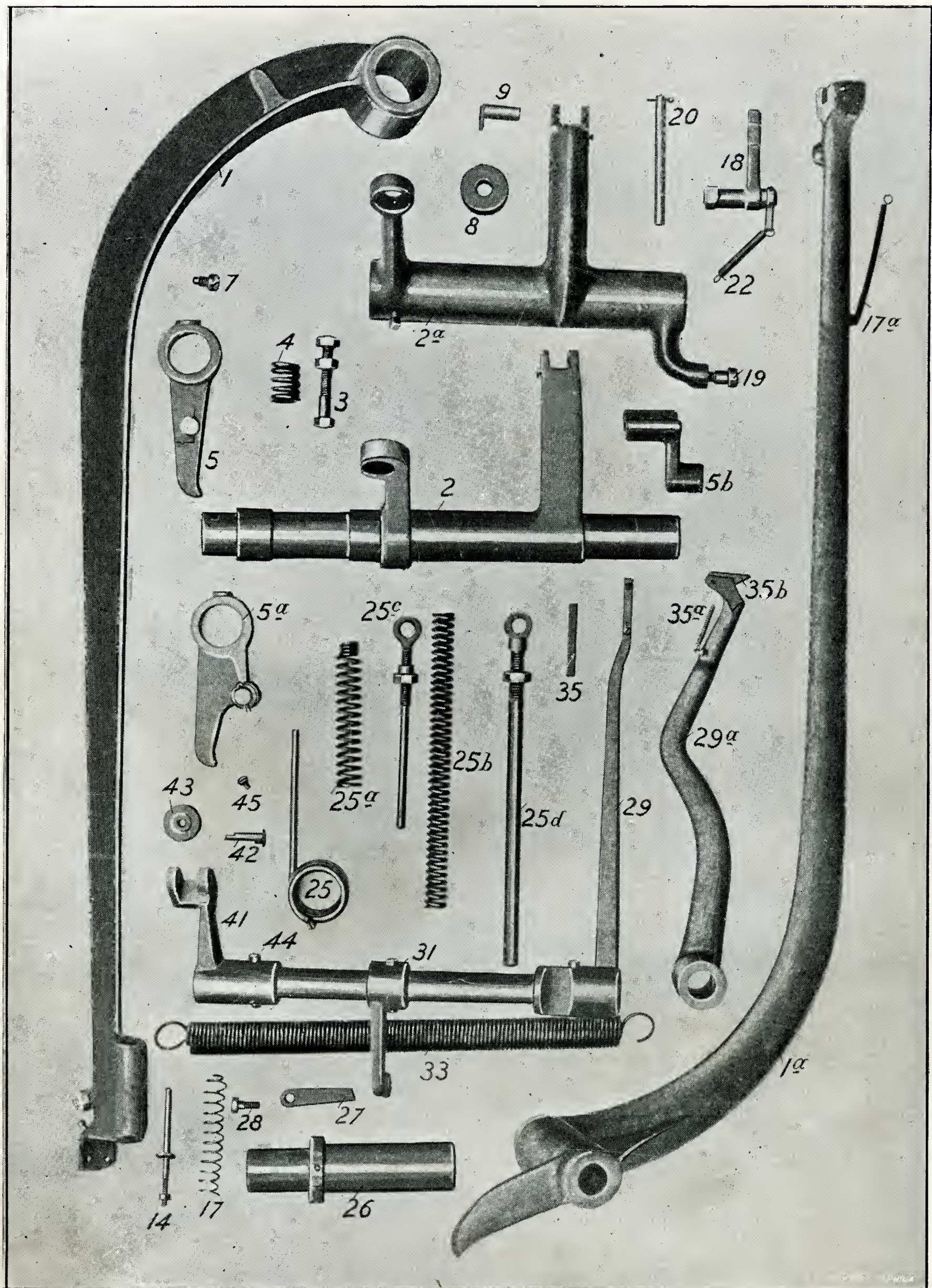
Note.—To simplify matters and for the convenience of our patrons we illustrate only such machine parts which, according to our experience, are more or less subject to wear and tear; but, of course, we also furnish all others not illustrated.

ADDRESS ALL ORDERS TO OTT. MERGENTHALER & CO., BALTIMORE, MD.

**SPECIAL ATTENTION IS CALLED TO OUR TIME-SAVING
DEVICES.**

READ CAREFULLY REMARKS ON BOTTOM OF THE PAGES.

Sheet B.



Sheet B.

SECOND ELEVATOR LEVER.

- 1. Long Lever.
- 1a. Long Lever (new No. 266).
- 2. Cam Lever.
- 2a. Cam Lever (new No. 256).
- 3. Adjusting Bolt and Nut.
- 4. Adjusting or Cushion Spring.
- 5. Safety Lever.
- 5a. Safety Lever.
- 5b. Starting Spring Arm (new No. 263).
- 7. Set Screw for Safety Lever.
- 8. Roller for Cam.
- 9. Pin for Roller.
- 14. Long Pin to lift Elevator Bracket.
- 17. Spring for Pin.
- 17a. Long Spiral Spring for Bracket (new No. Sheet G, 183).
- 18. Safety Pawl.
- 19. Shoulder Screw for Starting Spring Arm.
- 20. Fulcrum for Safety Pawl.
- 22. Spring for Safety Pawl.
- 25. Starting Spring.
- 25a. Starting Spring.
- 25b. Starting Spring (new No. 238).
- 25c. Eye Bolt for Spring 25a.
- 25d. Eye Bolt for Spring 25b. (new No. 258).
- 26. Ratchet Sleeve.
- 27. Pawl for Ratchet.
- 28. Screw for Pawl.

For Second Elevator Bar see sheet G 65, page 69.

For First Elevator see sheet E, page 53.

LINE DELIVERY LEVER.

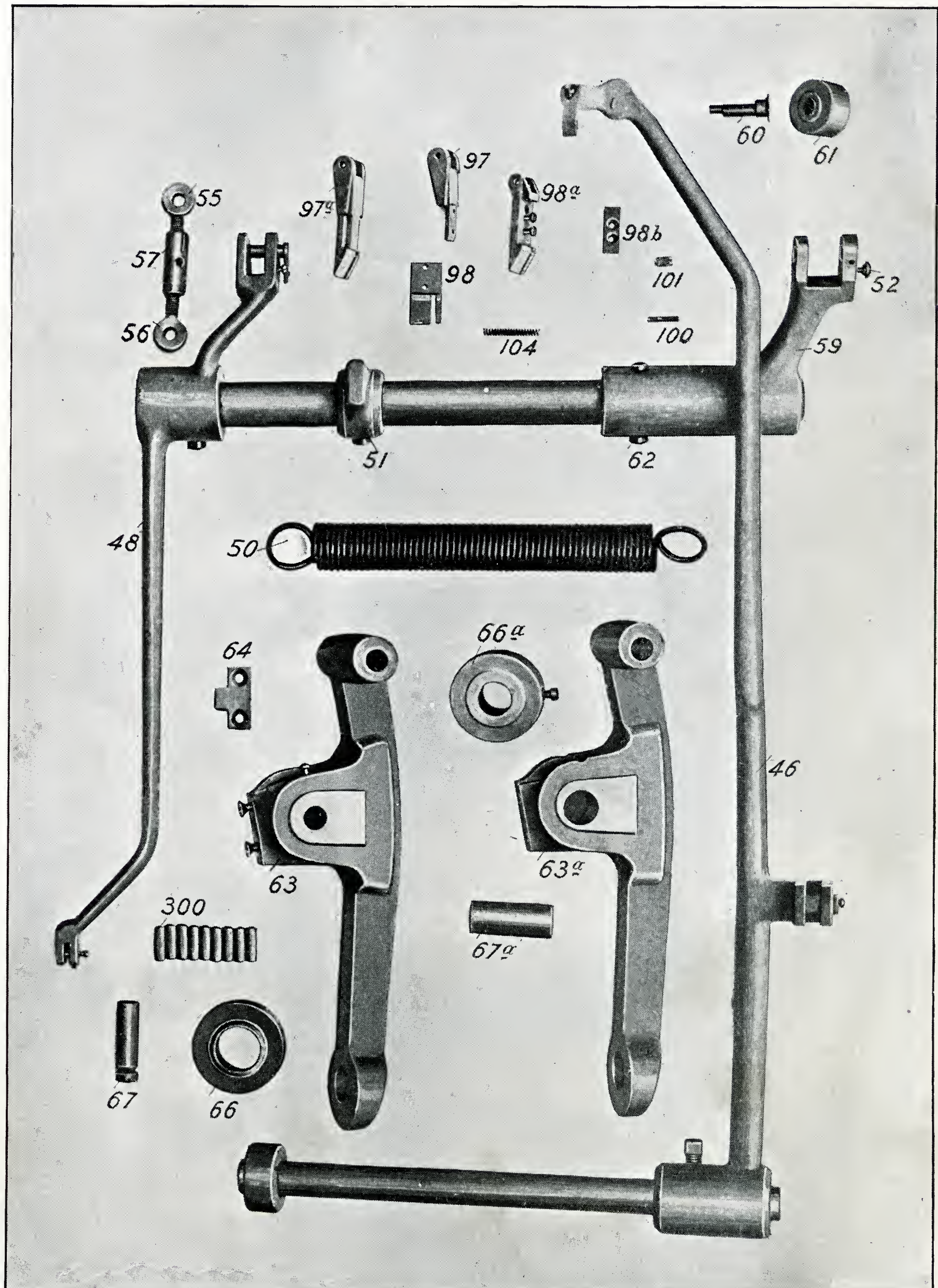
- 29. Lever.
- 29a. Lever.
- 31. Spring Arm.
- 33. Large Spiral Spring.
- 35. Flat Spring for end of Lever (new No. 216).
- 35a. Small Spiral Spring.
- 35b. Pawl Hook.
- 41. Cam Lever.
- 42. Eccentric Pin, same as No. 60.
- 43. Roller.
- 44. Taper Pin.
- 45. Shoulder Screw to hold Eccentric Pin, same as No. 52.
- 249. Line Delivery Lever, complete.

For Delivery Carriages and Link see sheet D 198, page 47.

For Spaceband and Elevator Transfer Lever see sheet B, page 27.

**PARTS HAVING TWO NUMBERS CAN BE ORDERED BY
GIVING EITHER NUMBER.**

Sheet B.



Sheet B—Continued.

SPACEBAND LEVER.

- 46. Lever (in ordering state which Pawl is to be used, 97a or 98c).
- 97. Body for Shifter.
- 97a. Shifter, complete.
- 98. Hook for Shifter.
- 98a. Pawl (new No. 243).
- 98b. Guide Piece for Pawl (new No. 244).
- 98c. Pawl, assembled (new No. 247).
- 100. Hinge Pin for Pawl.
- 101. Bushing for Pawl.
- 104. Spiral Spring for Pawl.
- 267. Spaceband Lever, complete.

For Spaceband Shifter Carriage and Slide see sheet D 219, page 47.

For Spaceband Box see sheet D 162, page 45.

ELEVATOR TRANSFER LEVER.

- 48. Lever.
- 50. Spiral Spring.
- 51. Spring Arm.
- 52. Shoulder Screw to hold Eccentric Pin, same as No. 45.
- 55. Eye Bolt, right hand.
- 56. Eye Bolt, left hand.
- 57. Nut.
- 59. Cam Lever.
- 60. Eccentric Pin, same as No. 42.
- 61. Roller.
- 62. Taper Pin.
- 250. Elevator Transfer Lever, complete.

For Slide or Carriage see sheet D 219, page 47.

For Delivery Lever see sheet B, page 25.

POT LEVER AND ROLLERS.

- 63. Lever.
- 63a. Lever (without roller bearing).
- 64. Latch.
- 66. Roller.
- 66a. Roller (no roller bearing).
- 67. Center Pin.
- 67a. Pin 15-16 diam.
- 268. Pot Lever and Rollers, complete.
- 300. Anti-friction Rollers.

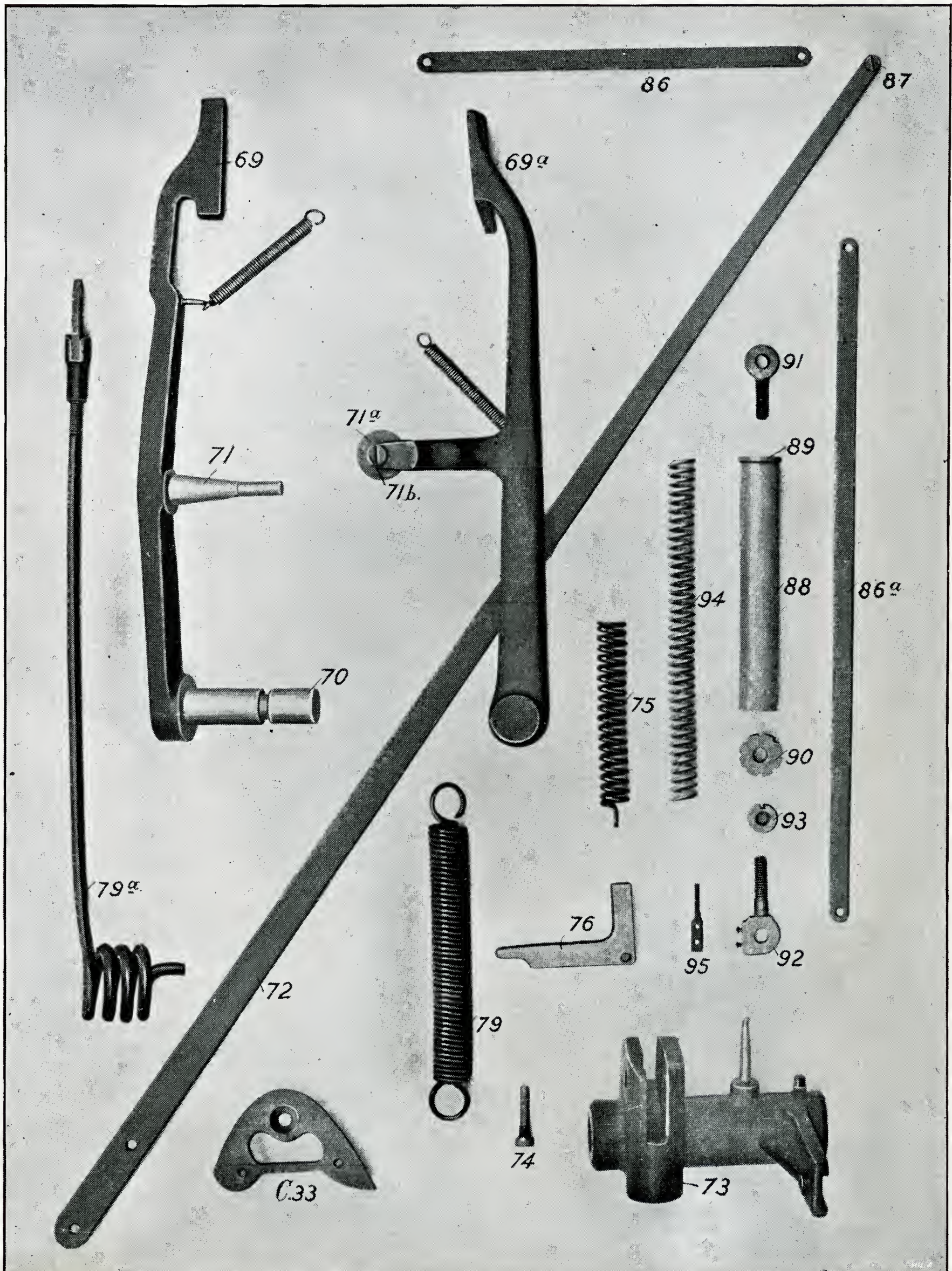
For Pot see sheet F, page 57.

For Pot Lever Spring and Adjusting Bolt see sheet F 24, page 57.

For Pump Lever see sheet BB, page 33.

**ALL OUR PARTS ARE TESTED TO FIT ANY MAKE OF
MACHINES, BALTIMORE OR BROOKLYN
MANUFACTURE.**

Sheet B.



Sheet B.--Continued.**SLUG LEVERS.**

- 69. Lever.
- 69a. Lever.
- 70. Lever Shaft.
- 71. Connecting Stud.
- 71a. Roller for Lever.
- 71b. Shoulder Screw for Roller.
- Spring for Lever.

For Chase Box see sheet E 139, etc., page 55.

DISTRIBUTOR SHIFTER LEVER.

- 72. Lever.
- 73. Hub.
- 74. Screw for Pawl.
- 75. Safety Spring.
- 76. Pawl.
- 79. Lever Spring (Spiral).
- 79a. Lever Spring (old style).
- 86. Lever Link.
- 86a. Lever Link (new No. 221).
- 87. Shoulder Screw for Link.
- 252. Distributor Shifter Lever, complete.

For Cam see sheet C 33, page 35.

For Distributor Carriage see sheet G, page 69.

For Distributor Box see sheet G, page 71.

FIRST ELEVATOR LINK.

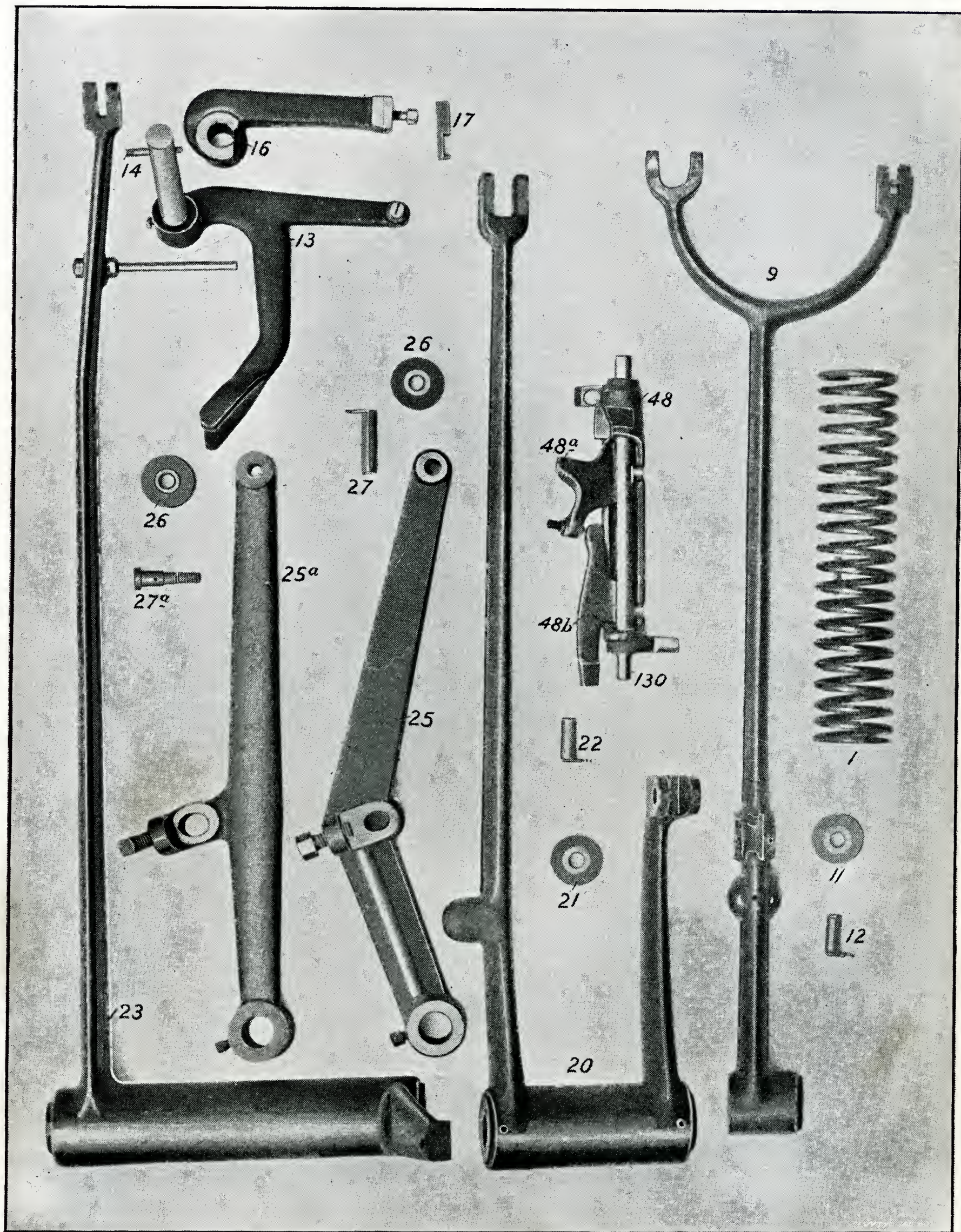
- 88. Casing.
- 89. Nut for Left Hand Eye Bolt.
- 90. Bushing for Right Hand Eye Bolt (notched).
- 91. Left Hand Eye Bolt.
- 92. Right Hand Eye Bolt.
- 93. Inside Nut for Right Hand Eye Bolt.
- 94. Spiral Spring.
- 95. Flat Spring for Eye Bolt.
- 271. First Elevator Link, complete.

For Elevator Jaws see sheet E, page 53.

For Elevator Lever see sheet BB, page 31.

**STATE ON EACH ORDER HOW YOU WISH GOODS SHIPPED,
WHETHER BY FREIGHT, EXPRESS, OR
REGISTERED MAIL.**

Sheet BB.



Sheet BB.

WISE CLOSING LEVER.

- 1. Spring for Lever.
 - 9. Lever.
 - 11. Roller.
 - 12. Pin.
 - 177. Vise-closing Lever and Roller, complete.
- For Vise-closing Arrangement see sheet E, page 49.*
For Vise-closing Cam see sheet C, page 35.

AUTOMATIC STOP LEVERS.

- 13. Yoke Lever.
 - 14. Taper Pin.
 - 16. Stop Lever.
 - 17. Latch for Stop Lever.
 - 48. Vertical Lever.
 - 48a. Upper Intermediate Lever.
 - 48b. Lower Intermediate Lever.
 - 130. Shaft.
 - 162. Automatic Stop Lever (13 & 16), complete.
- For Stop Handle see sheet E, page 55.*
For Stop Pawls in Cam see sheet C, page 37.

JUSTIFICATION LEVER.

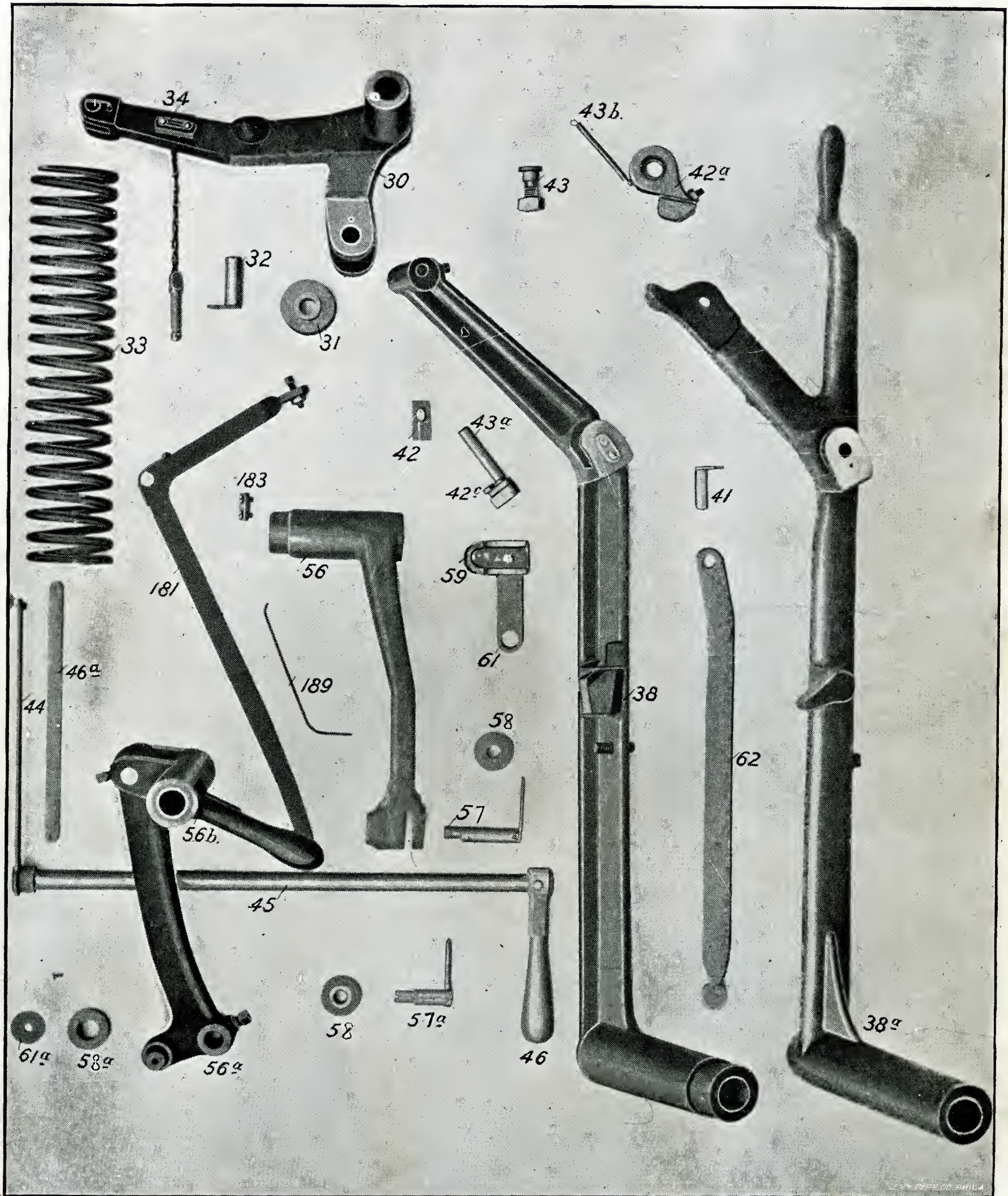
- 1. Spring for Lever.
 - 20. Lever.
 - 21. Roller.
 - 22. Pin.
 - 178. Justification Lever and Roller, complete.
- For Justification Slide see sheet E, page 51.*
For Justification Cam see sheet C, page 35.

FIRST ELEVATOR LEVER.

- 23. Lever.
 - 24. Link Pin.
 - 25. Cam Lever.
 - 25a. Cam Lever (new No. 117).
 - 26. Roller.
 - 27. Pin for Roller.
 - 27a. Stud for Roller (new No. 118).
 - 171. First Elevator Cam Lever and Roller, complete.
- For Elevator Jaws see sheet E, page 53.*
For Elevator Link see sheet B, page 29.

ALWAYS KEEP SOME RESERVE PARTS ON HAND.

Sheet BB.



Sheet BB.--Continued.**PUMP LEVER.**

- 30. Lever.
- 31. Roller.
- 32. Pin.
- 33. Spiral Spring (same as F 32).
- 34. Flat Spring.
- 174. Pump Lever and Roller, complete.
- 181. Stop Lever.
- 183. Catch Block.
- 189. Spring for Stop Lever.

For Plunger and Rod see sheet F 22, etc., page 57.

For Pot Lever see sheet B, page 27.

EJECTOR LEVERS.

- 38. Lever.
- 38a. Lever (new No. 121).
- 41. Pin for Link.
- 42. Nose.
- 42a. Pawl (new No. 108).
- 42b. Plate for Pawl with Rivets (new No. 129).
- 42c. Nose.
- 43. Screw for Pawl (new No. 109).
- 43a. Eccentric Pin.
- 43b. Pawl Spring (new No. 133).
- 43c. Flat Spring for Nose.
- 62. Lever Link.
- 173. Ejector Lever, complete.

For Ejector Slide see sheet F 48, page 59.

For Ejector Cam or Nose see sheet C, page 35.

ASSEMBLING ELEVATOR LEVER.

- 44. Arm.
- 45. Shaft.
- 46. Handle.
- 46a. Link.
- 164. Assembling Elevator Lever, complete.

For Assembling Elevator see sheet D, page 41.

MOLD LEVERS.

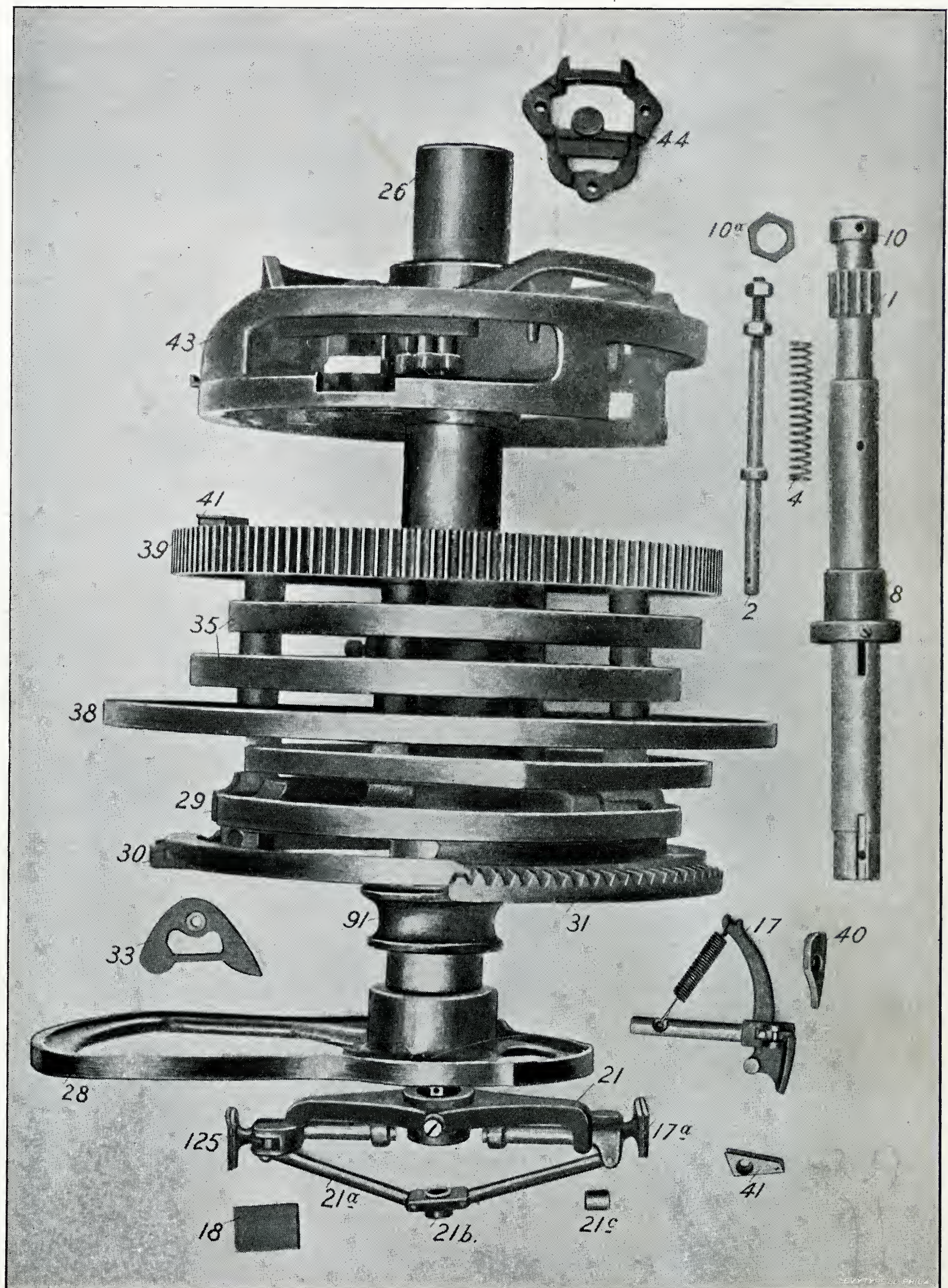
- 56. Lever.
- 56a. Lever (new No. 124).
- 56b. Handle (new No. 125).
- 57. Eccentric Pin.
- 57a. Eccentric Pin (long) (new No. 161).
- 58. Roller for Cam.
- 58a. Roller for Slide.
- 59. Mold Slide Connection.
- 61. Link.
- 61a. Washer for Slide Roller.
- 172. Mold Lever, complete.

For Mold Slide see sheet F, page 59.

For Mold Disc and Mold see sheet F, page 61.

REPAIRING OF SPACEBANDS A SPECIALTY.

Sheet C.



Sheet C.

DRIVING SHAFT.

1. Pinion.
2. Clutch Rod.
4. Spring.
8. Clutch Flange.
10. Collar for Pinion.
- 10a. Nut for Pinion.
11. Friction or Driving Pulley.
- 11a. Friction Gear for Electric Motor.
12. Loose Pulley.
17. Friction Shoe.
- 17a. Friction Shoe (new No. 125).
18. Friction Leathers.
21. Clutch Arm.
- 21a. Friction Link (new No. 126).
- 21b. Collar (new No. 127).
- 21c. Bushing (new No. 139).

For Bearings and Brackets see sheet A, page 23.

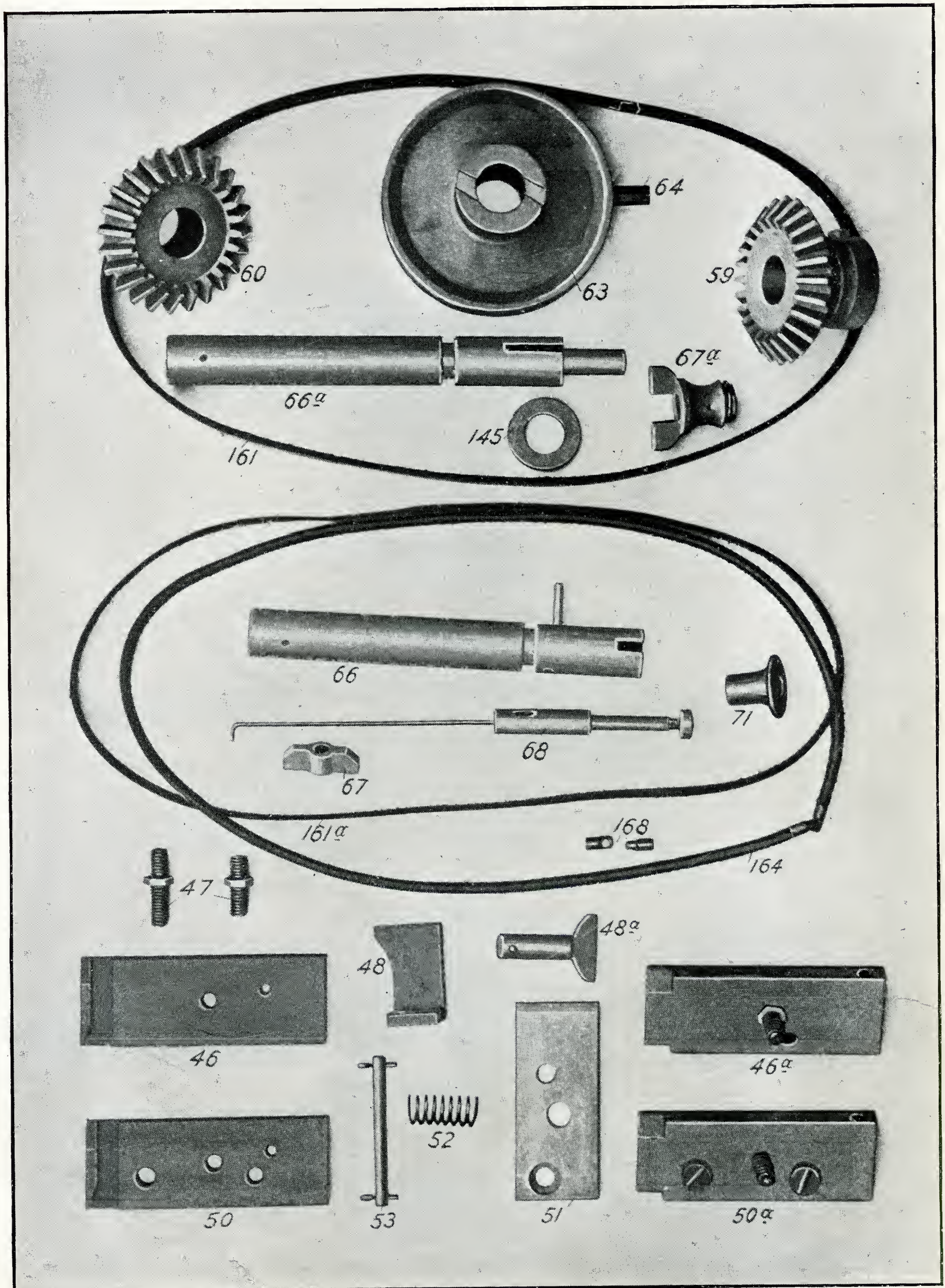
CAMS.

26. Shaft.
28. First Elevator Cam.
29. Vise-closing and Mold-turning Cam.
30. Short Tooth Segment.
31. Long Tooth Segment.
33. Distributor-shifter Cam (new No. 132).
35. Pot and Pump Cam.
38. Justification and Second Elevator Cam.
39. Mold Cam and Driving Gear.
40. Pot Return Cam.
41. Ejector Cam.
43. Line Delivery and Elevator Transfer Cam.
44. Bracket for Automatic Pawls.
91. Cam Shaft Collar.
149. Cam Shoe for Mold-turning Cam.
150. Screw for Cam Shoe.
151. Bushing for Screw.

For Pedestals and Covers see sheet A, page 23.

ORDERS FOR SUPPLIES SHOULD BE WRITTEN IF POSSIBLE ON OUR ORDER BLANKS FURNISHED GRATIS.

Sheet C.



Sheet C.--Continued.

AUTOMATIC PAWLS.

- 46. Safety Pawl.
- 46a. Safety Pawl.
- 47. Adjusting Screw.
- 48. Buffer for Safety Pawl.
- 48a. Buffer for Safety Pawl.
- 50. Stopping Pawl.
- 50a. Stopping Pawl.
- 51. Adjusting Plate.
- 52. Spring.
- 53. Hinge Pin (new No. 122).
- 154. Stopping Pawl, complete.
- 158. Safety Pawl, complete.

For Automatic Pawl Bracket see sheet C, page 35.

INTERMEDIATE CLUTCH.

- 59. Large Bevel Gear.
- 60. Small Bevel Gear.
- 63. Clutch Pulley.
- 64. Screw for Pulley.
- 66. Shaft for Clutch.
- 66a. Shaft for Clutch (new No. 144).
- 67. Pawl.
- 67a. Pawl (new No. 143).
- 68. Clutch Pin.
- 71. Knob.
- 145. Knob Ring.
- 148. Knob Spring.
- 174. Intermediate Clutch, complete.

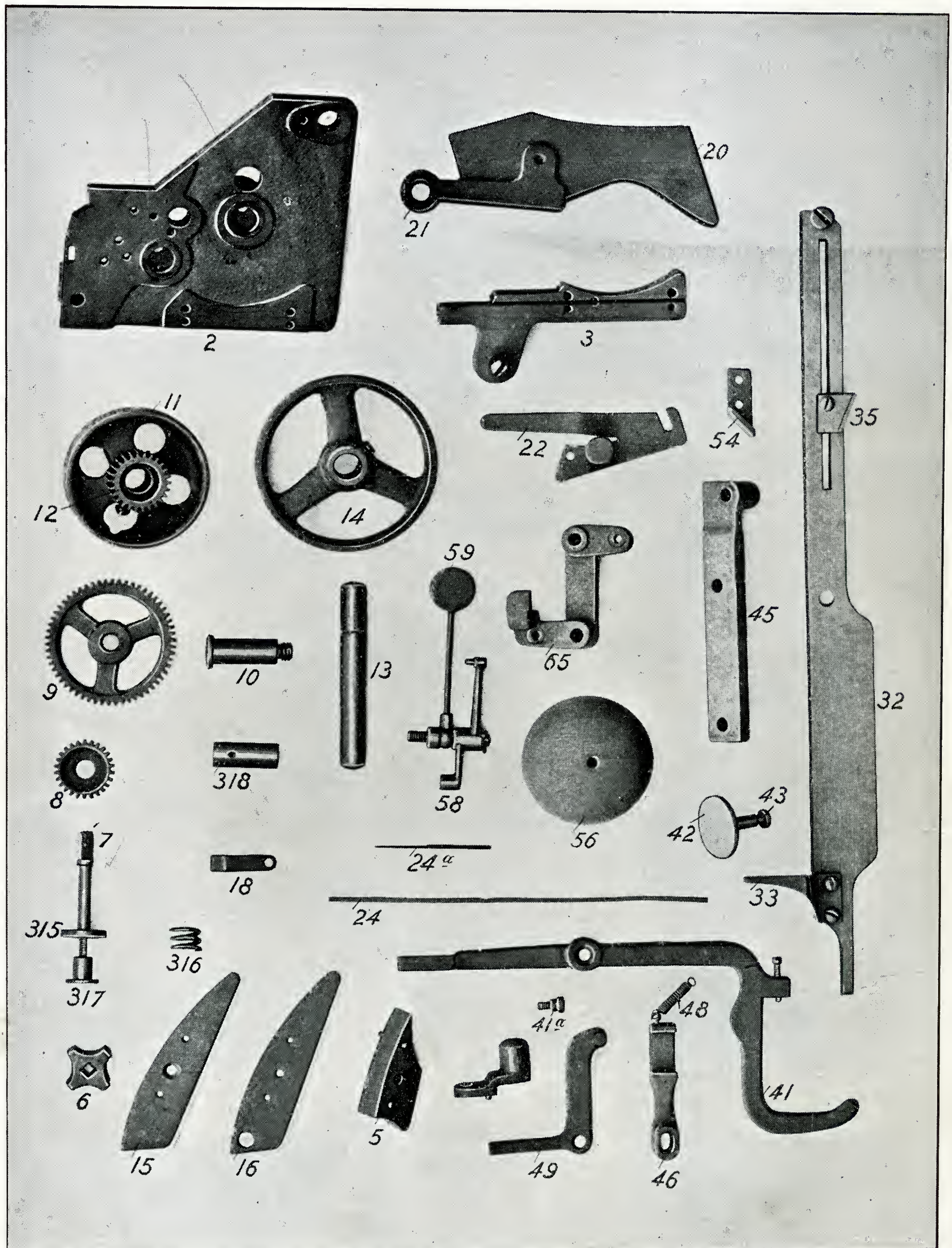
For Main Driving Clutch see sheet C, page 35.

BELTS.

- 160. Distributor Belt.
- 161. Assembler Driving Belt.
- 161a. Matrix Delivery Belt (new No. D 393).
- 162. Intermediate Belt.
- 164. Keyboard Belt (in ordering state front or back).
- 168. Keyboard Belt Coupling (one pair).
- 186. Keyboard Belt, complete (in ordering state front or back).

**STANDARD PARTS KEPT IN STOCK IF ORDERED BY
MISTAKE MAY BE RETURNED INSIDE OF 10
DAYS, IF FREE OF EXPENSE TO US.**

Sheet D.



Sheet D.

ASSEMBLER.

- 2. Plate.
- 3. Bracket for Glass Holder.
- 5. Block.
- 6. Star.
- 7. Star Shaft.
- 8. Star Pinion.
- 9. Intermediate Gear.
- 10. Stud for Intermediate Gear.
- 11. Small Pulley.
- 12. Driving Gear.
- 13. Shaft for Driving Pulley.
- 14. Large Pulley.
- 15. Outside Fibre Rail (front).
- 16. Inside Fibre Rail (back).
- 18. Catch Spring.
- 20. Small Glass.
- 21. Glass Holder.
- 22. Holder Spring.
- 24. Strips, Fibre or Hard Rubber.
- 24a. Steel Strips.
- 315. Friction Disc.
- 316. Spiral Spring for Friction Disc.
- 317. Friction Nut.
- 318. Bushing for Star Shaft.
- 318a. Bushing for Intermediate Shaft.
- 318b. Bushing for Driving Shaft.
- 484. Assembler, complete.

For Assembling Elevator see sheet D, page 41.

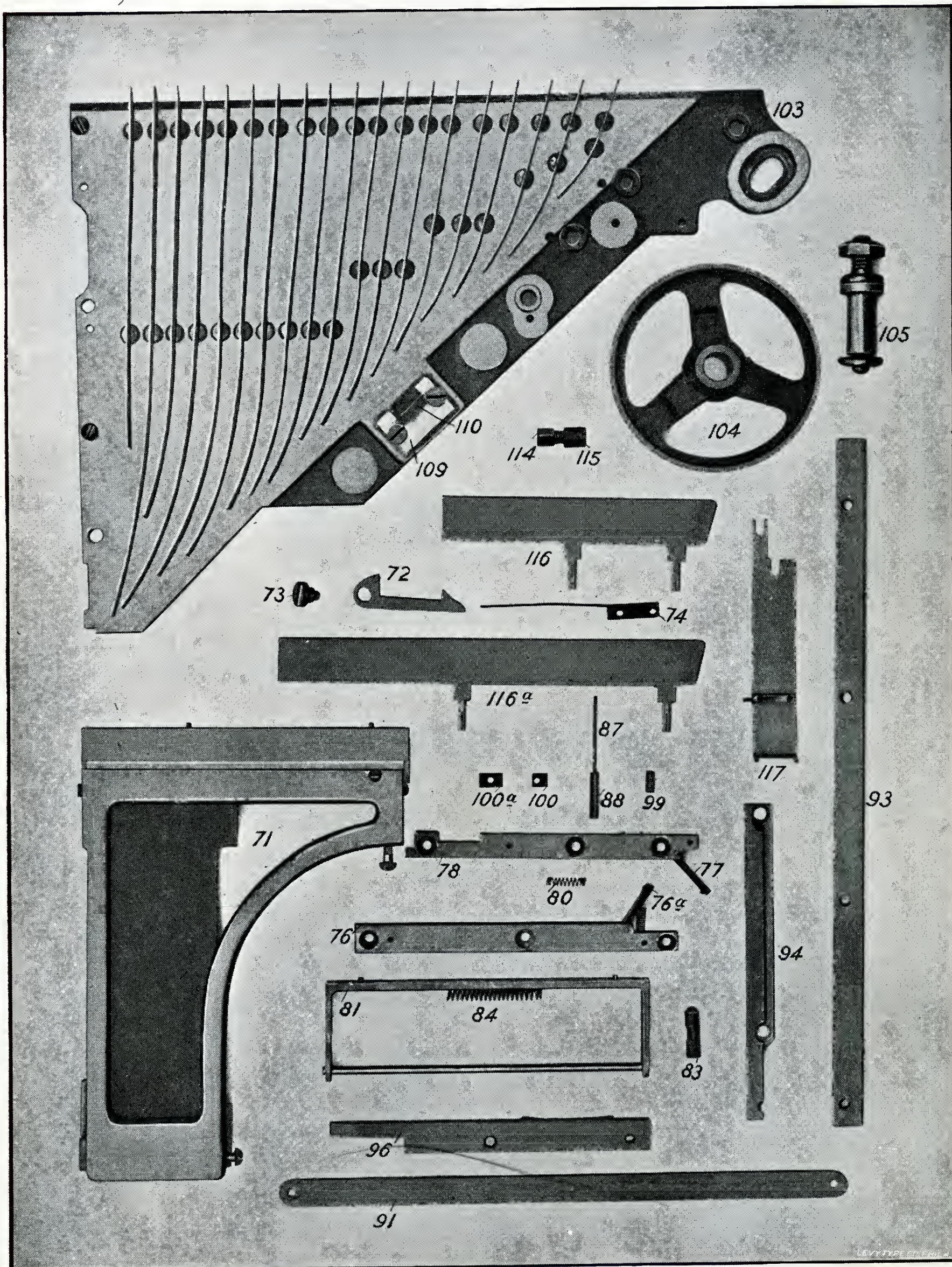
ASSEMBLER SLIDE.

- 32. Slide.
- 33. Finger.
- 35. Stop and Bell-ringing Slide (new No. 522).
- 41. Brake Hand Lever.
- 41a. Shoulder Screw for Lever.
- 42. Roller.
- 43. Screw for Roller.
- 44. Washer for Roller.
- 45. Left Hand Bracket.
- 46. Brake.
- 48. Spring for Brake.
- 49. Brake Lever.
- 54. Stop for Slide.
- 55. Spring for Slide.
- 65. Bracket. (See our Improved Bracket on page 115.)

For Assembler Entrance see sheet D, page 41.

**ALL ORDERS RECEIVE OUR PROMPT AND IMMEDIATE
ATTENTION.**

Sheet D.



Sheet D.--Continued.**ASSEMBLING ELEVATOR.**

- 71. Elevator Frame.
- 72. Hook or Latch.
- 73. Shoulder Screw for Hook.
- 74. Spring for Hook.
- 76. Gate Rail.
- 76a. Pawl for Gate Rail (new No. 434).
- 77. Pawl for Back Rail.
- 78. Back Rail.
- 80. Spring for Pawl.
- 81. Gate.
- 83. Gate Bolt.
- 84. Spring for Bolt.
- 87. Detent Pin.
- 88. Bushing for Detent Pin.
- 91. Link for Elevator.
- 93. Left Hand Guide.
- 94. Right Hand Guide.
- 96. Stop Bar.
- 97. Stop Pin in Bar.
- 99. Set Screw for Detent Pin.
- 100. Detaining Plate (back).
- 100a. Detaining Plate (front) (new No. 433).
- 486. Assembling Elevator, complete.

For Assembling Elevator Lever see sheet BB, page 33.

For Assembler see sheet D, page 39.

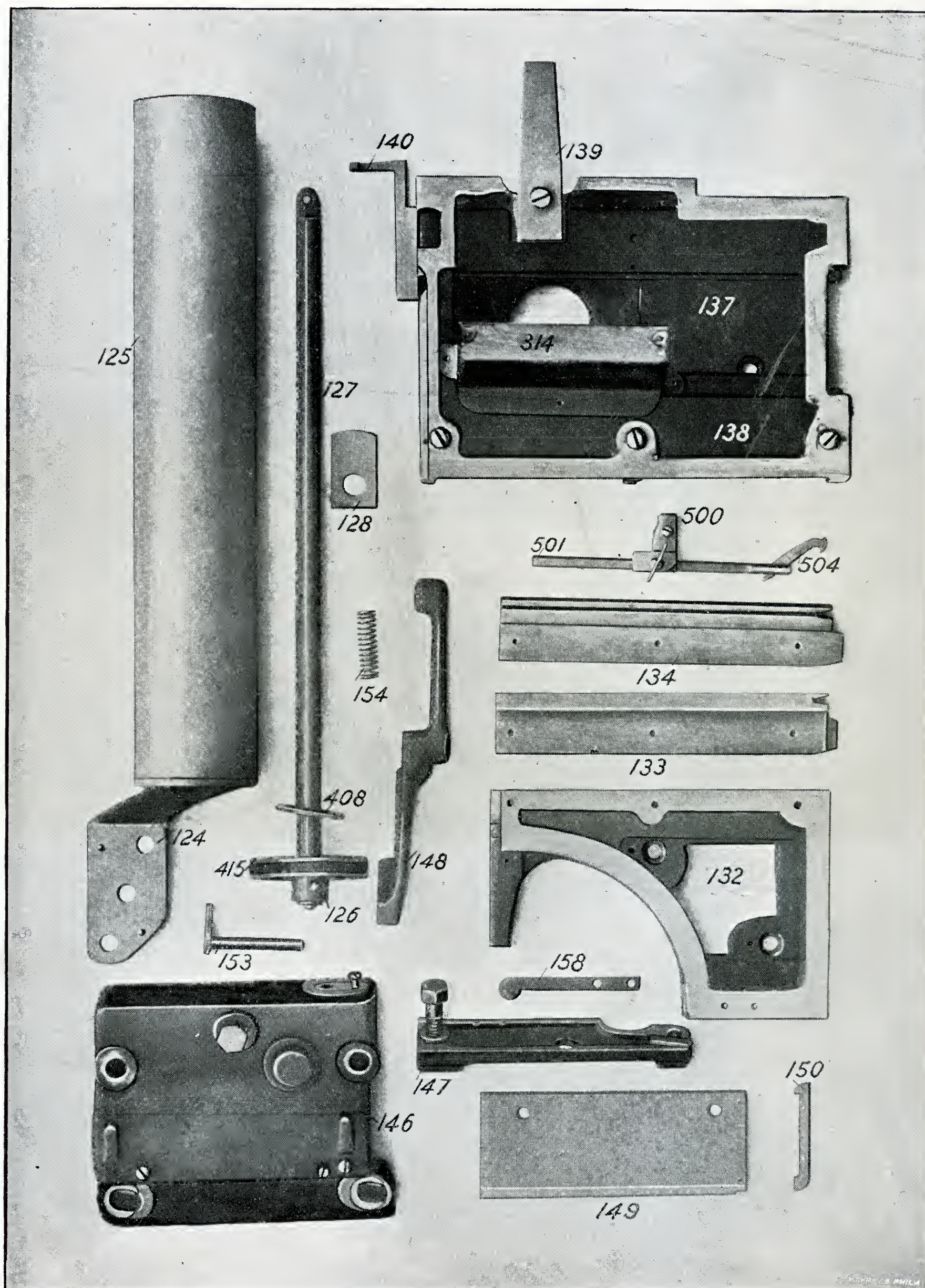
ENTRANCE FOR ASSEMBLER.

- 103. Plate.
- 104. Idler Pulley.
- 105. Stud for Pulley.
- 109. Latch Block.
- 110. Glass Latch.
- 111. Spring for Latch.
- 114. Guide Screw.
- 115. Nut for Guide Screw.
- 116. Guides $1\frac{1}{4}$ in. up to 6 in. long (new No. 435-444).
- 116a. Guides 6 in. and longer (new No. 445-451).
- 117. Chute Spring.
- 118. Plate for Chute Spring.
- 246. Front Bent Glass. (Not illustrated.)
- 483. Assembler Entrance, complete.

For Flexible Front see sheet J, page 81.

**WRITE YOUR ORDERS PLAIN AND DISTINCT, GIVING
SHEET, NUMBER AND NAME OF PARTS WANTED.**

Sheet D.



Sheet D.--Continued.**AIR PUMP.**

- 124. Bracket.
- 125. Cylinder.
- 126. Piston.
- 127. Piston Rod.
- 128. Rod Slide.
- 408. Piston Washer (Leather).
- 415. Piston Ring (felt).
- 458. Piston, complete.

For Carriages see sheet D, page 47.

DELIVERY CHANNEL.

- 132. Channel.
- 133. Front Rail.
- 134. Back Rail.

We also furnish repair parts for the new elements used in connection with the two-letter matrix.

- 500. Bracket for Adjustable Stop.
- 501. Stop Rod.
- 504. Stop Hook.

For Second Elevator see sheet G, page 69.

TOP GUIDE FOR ELEVATOR.

- 146. Top Guide.
- 147. Adjusting Strip.
- 148. Releasing Lever.
- 149. Bar.
- 150. Pawl.
- 153. Hinge Pin.
- 154. Spring for Lever.
- 158. Flat Spring.
- 489. Top Guide for Elevator, complete.

For First Elevator see sheet E, page 53.

READ CAREFULLY REMARKS ON BOTTOM OF PAGES.

Sheet D.--Continued.**AIR PUMP.**

- 124. Bracket.
- 125. Cylinder.
- 126. Piston.
- 127. Piston Rod.
- 128. Rod Slide.
- 408. Piston Washer (Leather).
- 415. Piston Ring (felt).
- 458. Piston, complete.

For Carriages see sheet D, page 47.

DELIVERY CHANNEL.

- 132. Channel.
- 133. Front Rail.
- 134. Back Rail.
- 495. Delivery Channel, complete.

For Delivery Lever see sheet B, page 25.

INTERMEDIATE CHANNEL.

- 137. Back Plate.
- 138. Front Plate.
- 139. Guide Post.
- 140. Stop for Elevator Pawl.
- 144. Centre Rail.
- 314. Quad Box.
- 461. Back Plate, complete.
- 471. Front Plate, complete.
- 500. Bracket for Adjustable Stop.
- 501. Stop Rod.
- 504. Stop Hook.

For Second Elevator see sheet G, page 69.

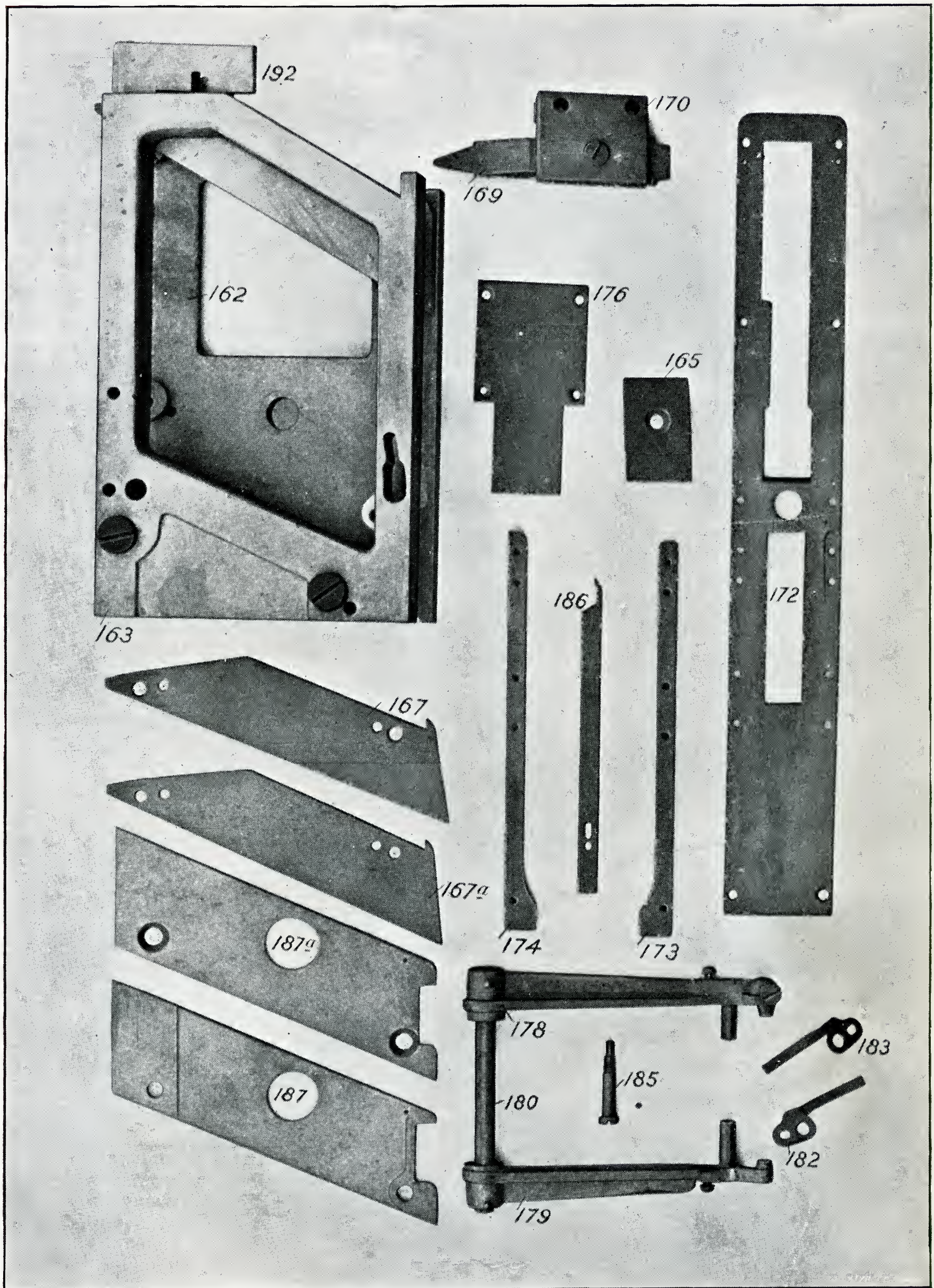
TOP GUIDE FOR ELEVATOR.

- 146. Top Guide.
- 147. Adjusting Strip.
- 148. Releasing Lever.
- 149. Bar.
- 150. Pawl.
- 153. Hinge Pin.
- 154. Spring for Lever.
- 158. Flat Spring.
- 489. Top Guide for Elevator, complete.

For First Elevator see sheet E, page 53.

READ CAREFULLY REMARKS ON BOTTOM OF PAGES.

Sheet D.



Sheet D.--Continued.

SPACEBAND BOX.

- 162. Back Plate.
- 163. Front Plate.
- 165. Stop for Spaceband End.
- 167. Top Rail (back).
- 167a. Top Rail (front) (new No. 431).
- 169. Centre Guide.
- 170. Holder for Centre Guide.
- 172. Long Chute Plate.
- 173. Chute Side (front).
- 174. Chute Side (back).
- 176. Short Chute Plate.
- 178. Pawl Lever (back).
- 179. Pawl Lever (front).
- 180. Hinge Pin for Lever.
- 182. Pawl Spring (front).
- 183. Pawl Spring (back).
- 185. Pawl Lifting Screw.
- 186. Pawl.
- 187. Lower Side Guide (front).
- 187a. Lower Side Guide (back) (new No. 432).
- 192. Stop Latch.
- 193. Screw for Latch.
- 194. Spring for Latch.
- 485. Spaceband Box, complete.

For Spaceband Lever see sheet B, page 27.

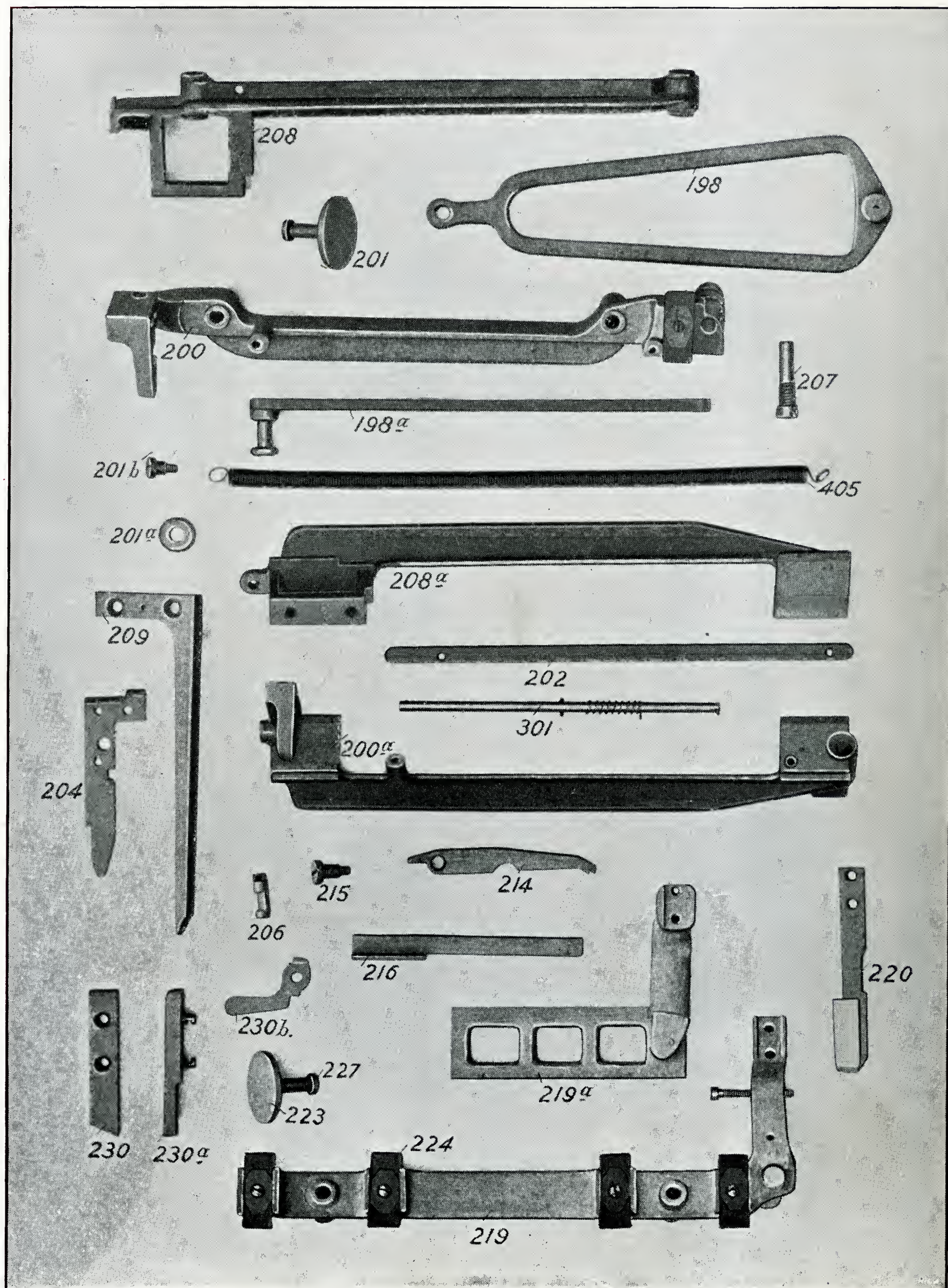
For Spaceband Intermediate Lever see sheet H, page 75.

For Spaceband Carriage see sheet D, page 47.

REPAIRING OF SPACEBANDS A SPECIALTY.

**IN ORDERING PARTS NOT ILLUSTRATED GET YOUR
MACHINIST TO MAKE A ROUGH SKETCH
OF WHAT IS WANTED.**

Sheet D.



Sheet D.--Continued.

DELIVERY CARRIAGES AND SLIDES.

- 198. Link with Stud (new No. 427).
- 198a. Link with Stud.
- 200. First Carriage (casting).
- 200a. First Slide (casting).
- 201. Guide Roller.
- 201a. Roller for Slide.
- 201b. Shoulder Screw for Roller.
- 202. Releasing Bar.
- 204. Short Finger.
- 206. Releasing Pin.
- 207. Link Screw.
- 208. Second Carriage (casting).
- 208a. Second Slide (casting).
- 209. Long Finger.
- 214. Stop Pawl.
- 215. Shoulder Screw for Pawl.
- 216. Spring for Pawl.
- 301. Gauge Rod.
- 405. Long Spiral Spring.
- 490. First Carriage, complete.
- 490a. First Slide, complete.
- 491. Second Carriage, complete.
- 491a. Second Slide, complete.

For Line Delivery Lever see sheet B, page 25.

For Line Delivery Channel see sheet D, page 43.

ELEVATOR TRANSFER CARRIAGE AND SLIDE.

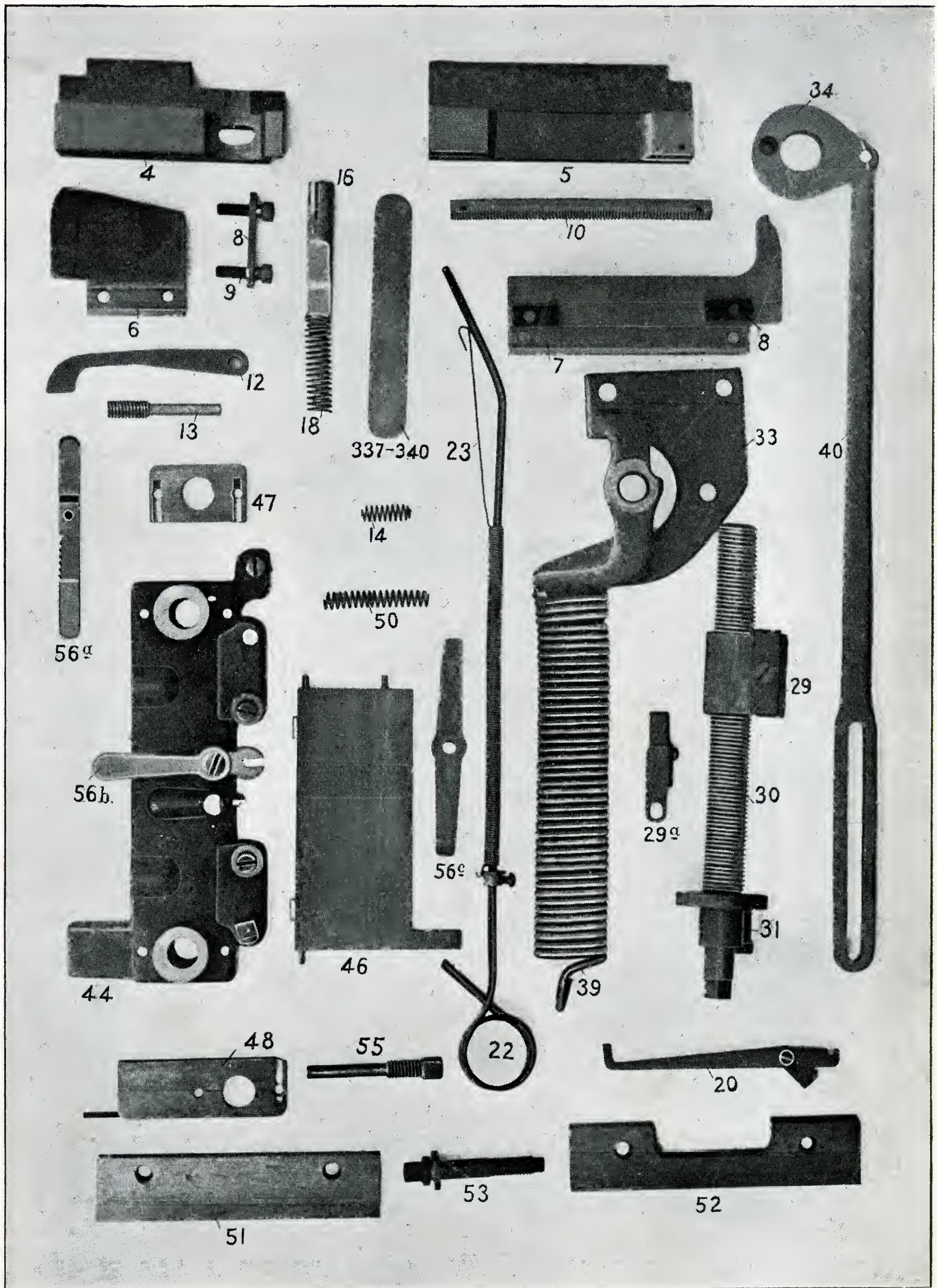
- 219. Carriage (casting).
- 219a. Slide (casting) (new No. 353).
- 220. Loop or Finger.
- 222. Link.
- 223. Roller.
- 224. Wiper Felt.
- 226. Washer for Roller.
- 227. Screw for Roller.
- 228. Mold Shield.
- 230. Jaw Guard.
- 230a. Jaw Guard.
- 230b. Handle for same.
- 463. Elevator Transfer Slide, complete.
- 463a. Elevator Transfer Carriage, complete.

For Elevator Transfer Lever see sheet B, page 27.

For Distributor Carriage see sheet G, page 69.

GOODS WILL BE SHIPPED AT OWNER'S RISK, WE EXERCISING ALL POSSIBLE CARE IN PACKING SAME.

Sheet E.



Sheet E.

WISE JAWS AND PARTS.

- 4. Block for Fixed Jaw.
- 5. Block for Movable Jaw.
- 6. Fixed Jaw.
- 7. Movable Jaw (see our Improved Jaw on page 115).
- 8. Key for Jaw.
- 9. Screws for Jaw.
- 10. Rack for Loose Jaw.
- 12. Pawl for Rack.
- 13. Hinge Screw for Pawl.
- 14. Spring for Pawl.
- 16. Operating Pin for Pawl.
- 18. Spring for Pin.
- 20. Lever for Closing Spring.
- 22. Closing Spring (steel).
- 23. Lever Spring (spiral).

For Wise Screws and Studs see sheet E, page 53.

WISE JAW CLOSING ARRANGEMENT.

- 29. Nut.
- 30. Screw.
- 31. Adjusting Disc.
- 33. Bracket.
- 34. Screw Arm.
- 39. Jaw-closing Spring.
- 40. Jaw-closing Rod.
- 264. Wise Jaw-closing Screw, complete.

For Wise Jaw-closing Lever see sheet BB, page 31.

KNIFE BLOCKS.

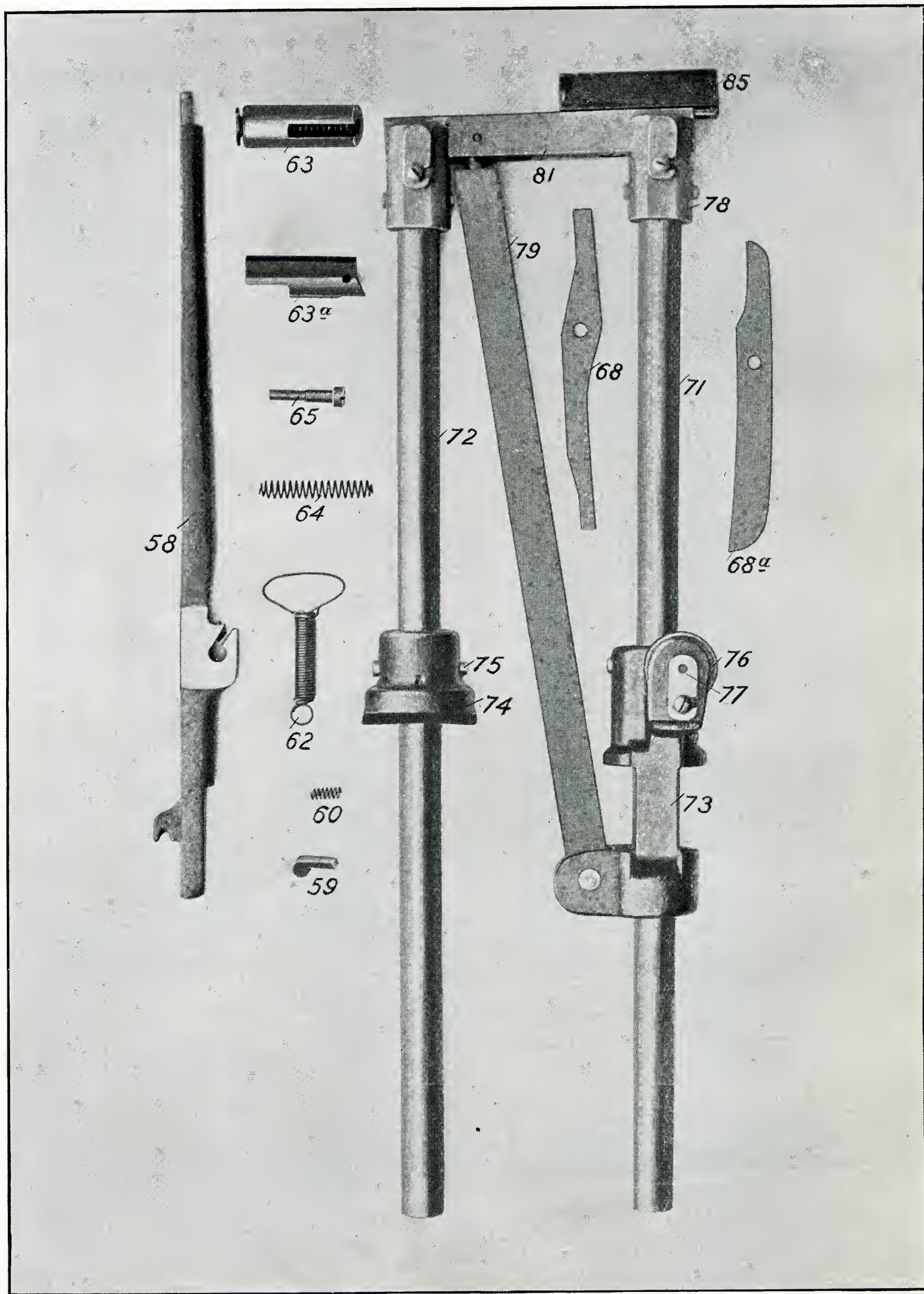
- 44. Block.
- 46. Plate.
- 47. Upper Liner.
- 48. Lower Liner.
- 50. Spiral Spring for Plate.
- 51. Front Knife (taper: upper end thick, lower end thin).
- 51a. Front Knife (taper: reversed) (new No. 289).
- 52. Back Knife (taper: upper end thick, lower end thin).
- 52a. Back Knife (taper: reversed) (new No. 290).
- 53. Fastening Screw.
- 54. Adjusting Screw (short).
- 55. Adjusting Screw (long).
- 56a. Wedge.
- 56b. Lever for Wedge.
- 56c. Flat Steel Spring.
- 289. Front Knife, same as 51a.
- 290. Back Knife, same as 52a.
- 337-340. Knife Liner, .007, .014, .021, .028 thick.

Parts for Double Line Letter Knife Block made to order.

For Mold Knife see sheet F, page 61.

**SPECIAL ATTENTION IS CALLED TO OUR TIME-SAVING
DEVICES.**

Sheet E.



Sheet E.==Continued.**AUTOMATIC STOP IN VISE.**

- 58. Stop Rod.
- 59. Pawl.
- 60. Spring for Pawl.
- 62. Spring for Rod.
- 63. Sliding Pin or Dog.
- 63a. Sliding Pin or Dog for Four-mold Disc (new No. 318).
- 64. Spring for Dog.
- 65. Stop Screw for Dog.
- 68. Stop Lever.
- 68a. Stop Lever (new No. 201).
- 266. Dog, complete.
- 335. Dog for Four-mold Disc, complete.

For Automatic Stop Levers see sheet BB, page 31.

JUSTIFICATION SLIDE.

- 71. First Rod (new No. 285).
- 72. Second Rod.
- 73. First Collar.
- 74. Second Collar.
- 75. Taper Pin.
- 76. Roller.
- 77. Pin for Roller.
- 78. Rod Cap.
- 79. Brace.
- 81. Bar.
- 85. Hardened Block.
- 85a. Hardened Block with Flat Bottom
- 267. First Rod, complete.
- 268. Second Rod, complete.

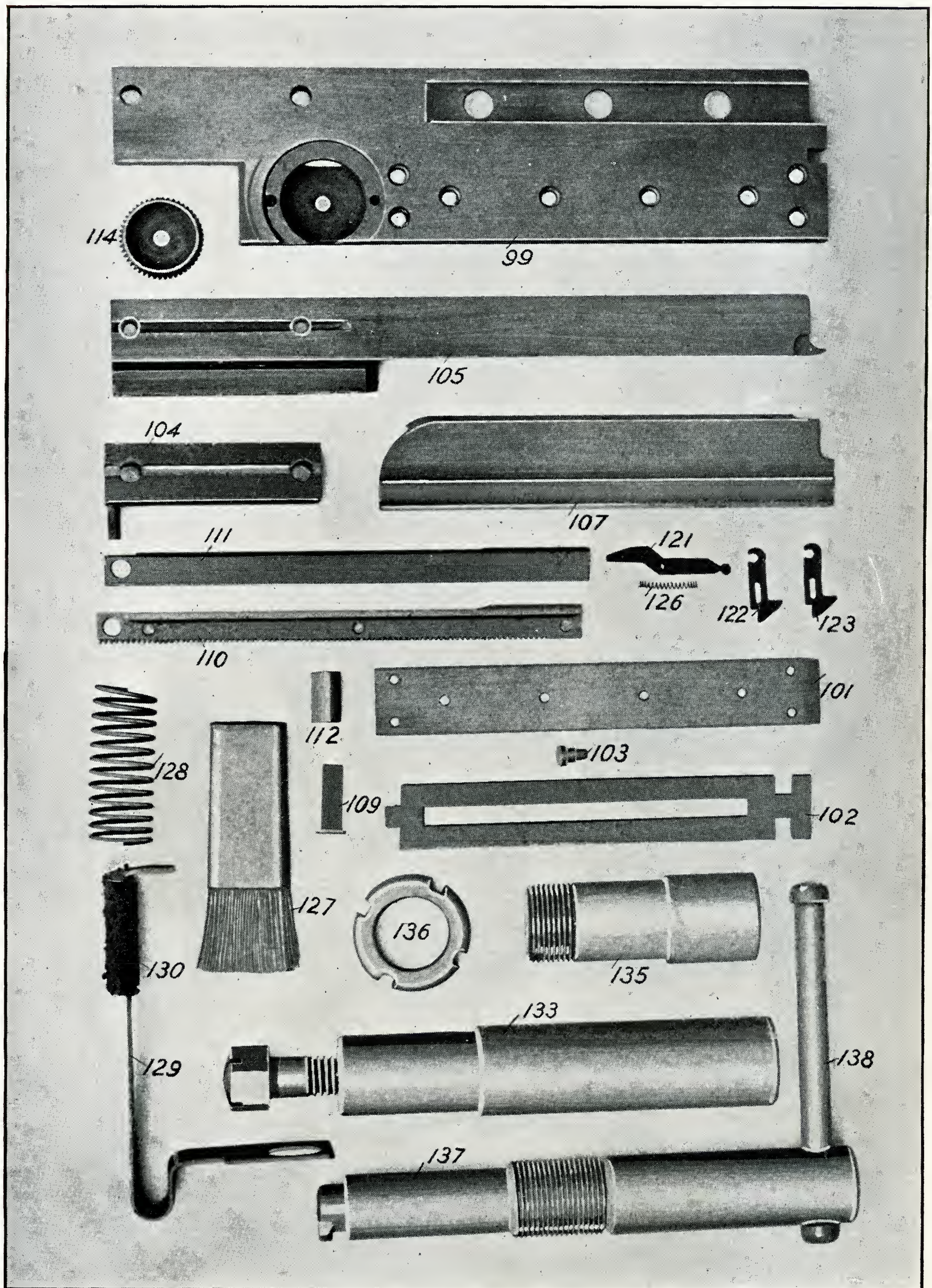
For Justification Lever see sheet BB, page 31.

For Vise Jaw-Closing Lever see sheet BB, page 31.

ADDRESS ALL ORDERS TO OTT. MERGENTHALER & CO., BALTIMORE, MD.

**STATE ON EACH ORDER HOW YOU WISH GOODS SHIPPED,
WHETHER BY FREIGHT, EXPRESS, OR
REGISTERED MAIL.**

Sheet E.



Sheet E.--Continued.**FIRST ELEVATOR.**

- 99. Front Jaw.
- 101. Adjusting Bar.
- 102. Rubber Backing.
- 104. Separating Block.
- 105. Back Jaw Holder.
- 107. Back Jaw.
- 109. Brake.
- 110. Rack Rail (front).
- 111. Plain Rail (back).
- 112. Collar for Rails.
- 114. Gear.
- 115. Disc.
- 116. Watch Spring.
- 118. Cover for Spring.
- 121. Pawl Lever.
- 122. Back Pawl.
- 123. Front Pawl.
- 126. Spring for Pawl.
- 269. First Elevator, complete.

For Elevator Link see sheet B, page 29.

For Elevator Lever see sheet BB, page 31.

For Top Guide of Elevator see sheet D, page 43.

For Second Elevator see sheet G, page 69.

MOLD CLEANER OR WIPER.

- 127. Brush.
- 128. Spring for Brush.
- 129. Wiper Holder (new No. F 218).
- 130. Felt (new No. F 219).

For Knife Cleaner see sheet E, page 55.

For Mold see sheet F, page 61.

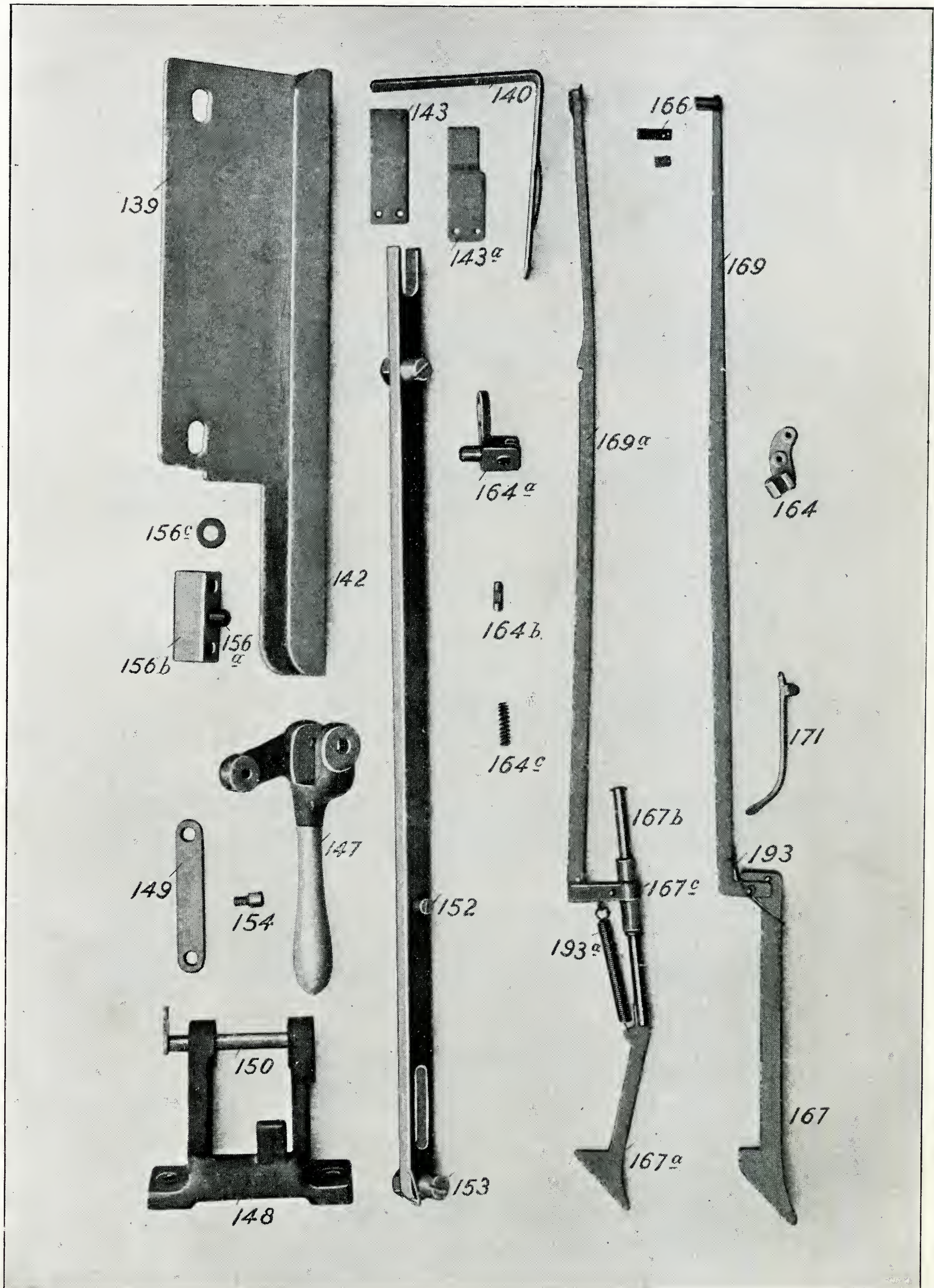
WISE STUDS AND SCREWS.

- 133. Long Stud.
- 135. Short Stud.
- 136. Nut.
- 137. Locking Screw.
- 138. Handle for Screw.

For Guide Stud and Bushing for Mold see sheet E, page 55.

**PARTS HAVING TWO NUMBERS CAN BE ORDERED BY
GIVING EITHER NUMBER.**

Sheet E.



Sheet E.--Continued.

CHASE.

- 139. Large Plate.
- 140. Angle Piece.
- 141. Spring for same.
- 142. Channel.
- 143. Slug Spring.
- 143a. Slug Spring.
- 270. Chase, complete.

See our Improved Chase Box on page 115.

For Slug Lever see sheet B. page 29.

STOPPING AND STARTING LEVER.

- 147. Hand Lever.
- 148. Bracket.
- 149. Link.
- 150. Pin for Hand Lever.
- 152. Connecting Rod.
- 153. Eccentric Screw.
- 154. Screw for Link.

For Automatic Stop Levers see sheet BB, page 31.

For Automatic Stop in Vise see sheet E, page 51.

GUIDE STUD AND BLOCK FOR MOLD.

- 156. Guide Stud and Block, complete.
- 156a. Stud or Pin (new No. 183).
- 156b. Block (new No. 253).
- 156c. Washer (new No. 181).

For Mold Bushing see sheet F, page 61.

For Adjustable Mold see sheet F, page 63.

KNIFE WIPERS OR CLEANERS.

- 164. Bar Guide.
- 164a. Bar Guide.
- 164b. Slide Pin.
- 164c. Spring for Slide Pin.
- 166. Wiper.
- 167. Bar Latch.
- 167a. Bar Latch.
- 167b. Latch Rod.
- 167c. Sleeve.
- 169. Bar.
- 169a. Bar.
- 171. Bar Spring.
- 193. Latch Spring.
- 193a. Latch Spring (spiral).
- 273. Knife Wiper, complete (169, etc.).
- 273a. Knife Wiper, complete (169a, etc.).

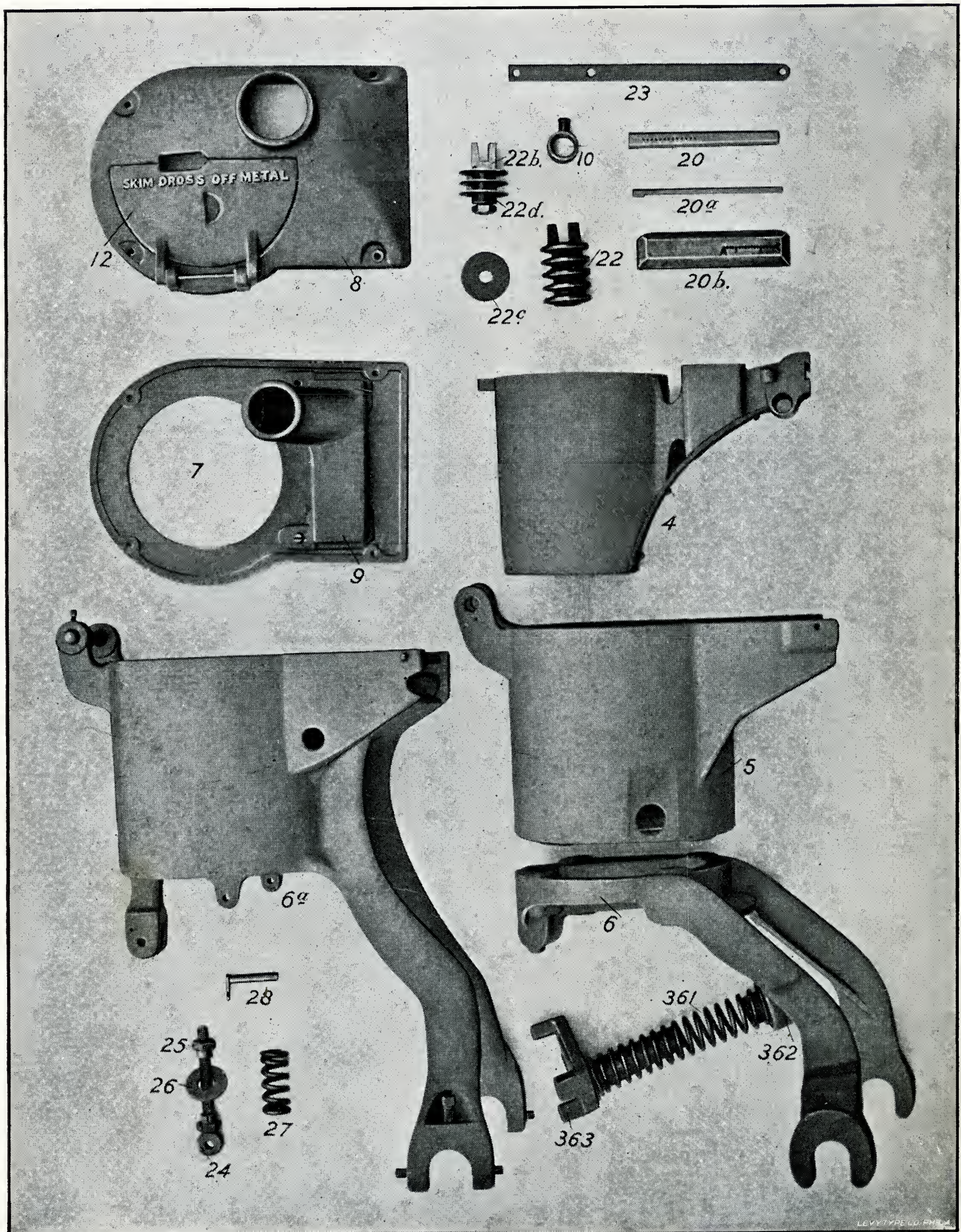
For Mold Wiper see sheet E, page 53.

For Mold Knife see sheet F, page 61.

For Vise Knives see sheet E, page 49.

ALWAYS KEEP SOME RESERVE PARTS ON HAND.

Sheet F.



Sheet F.

POT AND PARTS.

- 4. Pot (new No. 308).
- 5. Jacket.
- 6. Legs.
- 6a. Jacket and Legs combined (new No. 237).
- 7. Inner Cover.
- 8. Upper Cover.
- 10. Collar for Pot Leg (new No. 207).
- 12. Pot Lid.
- 20. Mouthpiece $\frac{3}{4}$ wide (new No. 306).
- 20a. Key for Mouthpiece (new No. 307).
- 20b. Mouthpiece.
- 316. Pot and Jacket, complete.

For Pot Lever see sheet B, page 27.

For Pump Lever see sheet BB, page 33.

Note.—In ordering Pot state with or without mouthpiece. In ordering mouthpiece state the width if not given on the list.

POT PLUNGERS.

- 22. Plunger (solid).
- 22a. Plunger (disc construction new No. 327).
- 22b. Stem (new No. 319).
- 22c. Disc (new No. 320).
- 22d. Collar (new No. 321).
- 23. Plunger Rod.

POT LEVER CONNECTION.

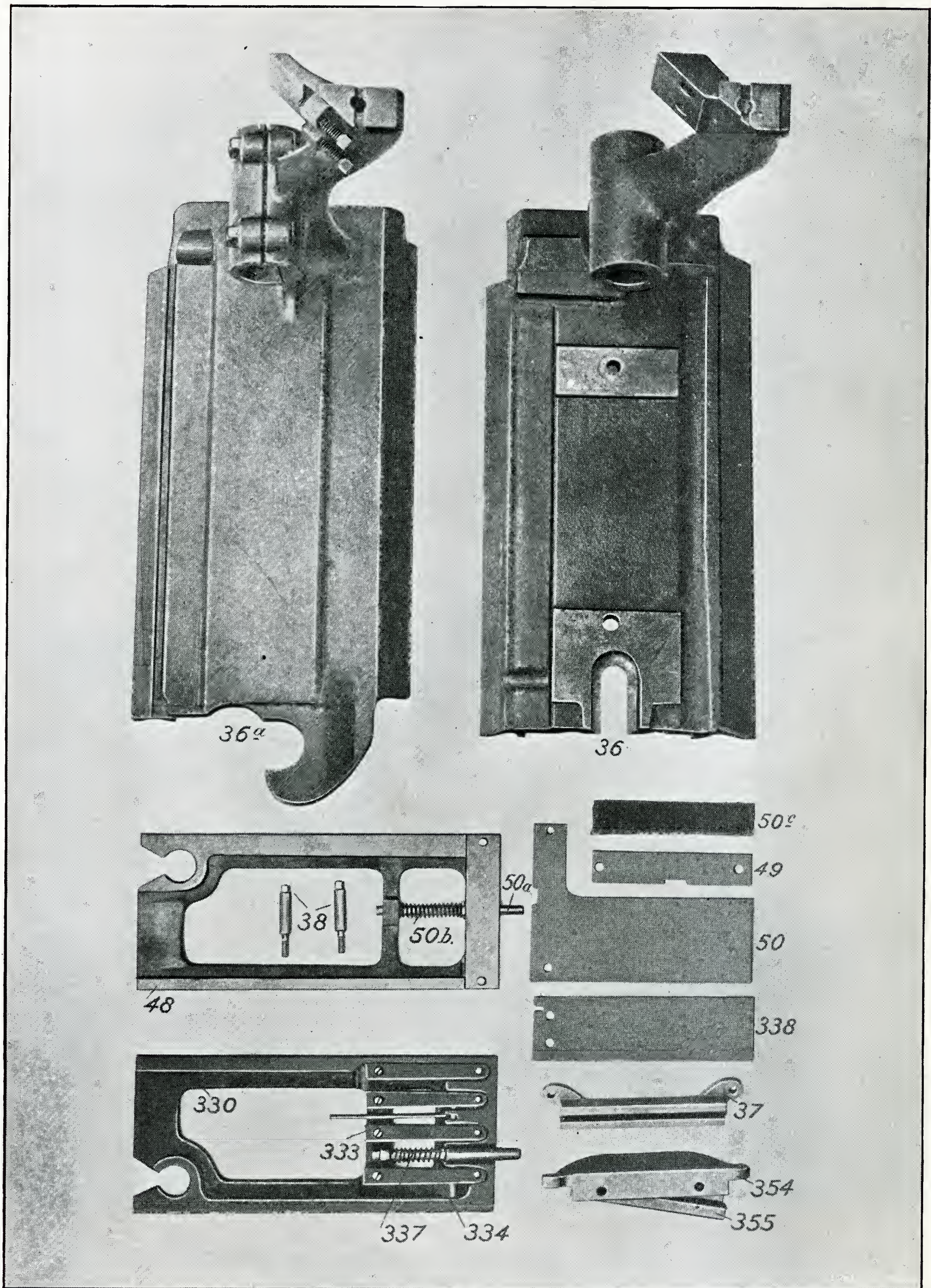
- 24. Eye Bolt for Pot Lever.
- 25. Split Nut for Bolt.
- 26. Washer.
- 27. Spring for Pot Lever.
- 28. Hinge Pin for Eye Bolt.

- 32. Pump Spring (same as sheet BB 33).
- 361. Balancing Spring.
- 362. Cap for Spring.
- 363. Base for Spring.

For Pump Lever see sheet BB, page 33.

ORDERS FOR SUPPLIES SHOULD BE WRITTEN IF POSSIBLE ON OUR ORDER BLANKS FURNISHED GRATIS.

Sheet F.



Sheet F.--Continued.

MOLD SLIDES.

36. Mold Slide.

36a. Mold Slide (new No. 256).

For Mold Lever see sheet BB 56, page 33.

For Mold see sheet F, page 61.

EJECTOR SLIDES.

37. Guide or Support.

38. Screws for Support.

48. Ejector Frame or Slide (stationary).

49. Liner.

50. Blade (stationary) (new No. 295).

50a. Buffer (new No. 205).

50b. Spring for Buffer (new No. 337).

50c. Felt for Support (new No. 279).

330. Slide (detachable).

333. Flat Locking Spring.

334. Throw-out Cam.

337. Spiral Spring for Buffer.

338. Blade (detachable).

353. Guide or Support, complete.

354. Holder.

355. Bar.

356. Leather Strip.

357. Spring for Bar.

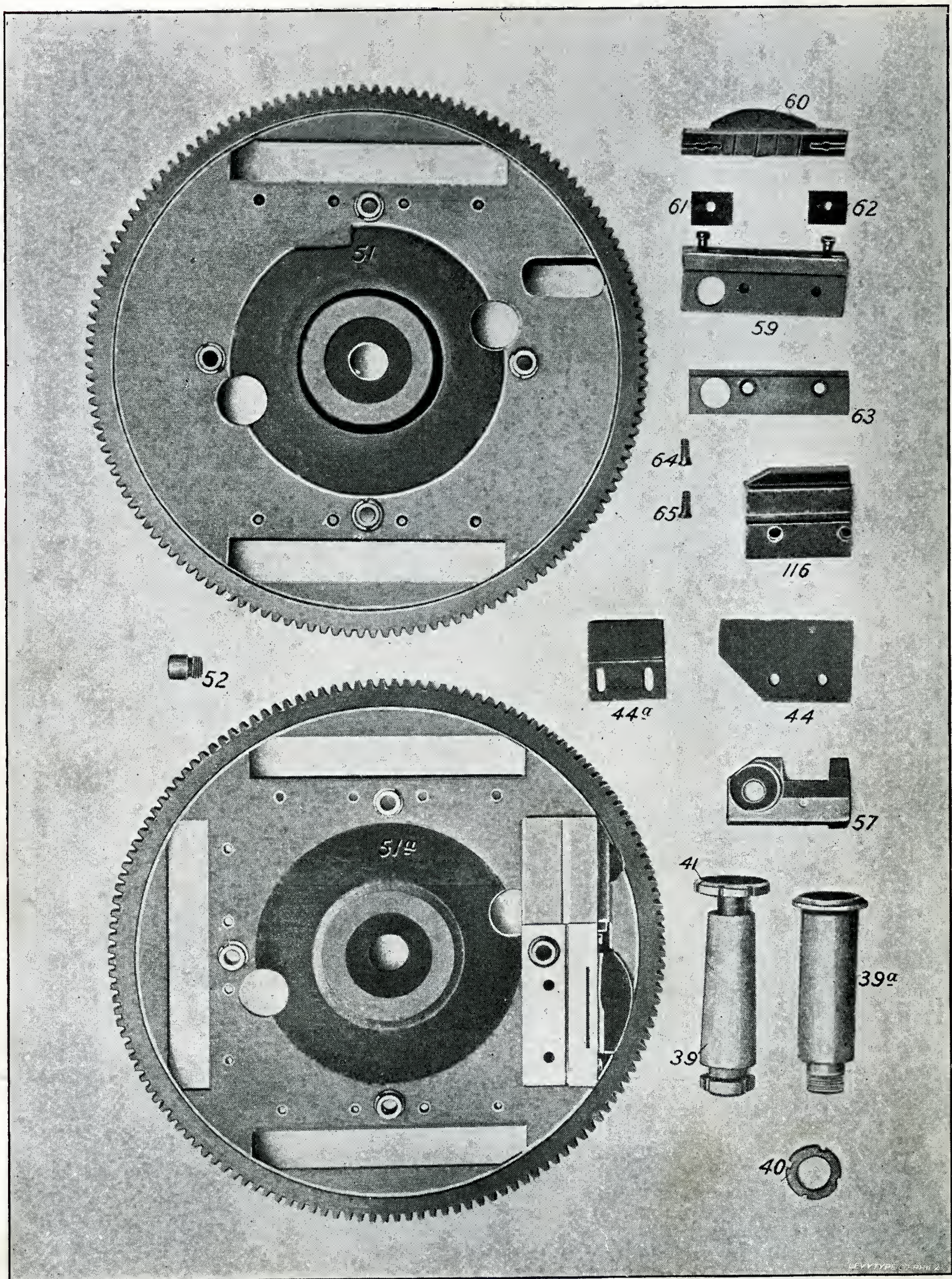
For Ejector Lever see sheet BB, page 33.

For Ejector Lever Cam or Nose see sheet C, page 35.

ALL OUR PARTS ARE TESTED TO FIT ANY MAKE OF MACHINES.

**STANDARD PARTS KEPT IN STOCK IF ORDERED BY
MISTAKE MAY BE RETURNED INSIDE OF 10
DAYS, IF FREE OF EXPENSE TO US.**

Sheet F.



Sheet F.==Continued.

MOLD DISCS AND KNIVES.

- 39. Stud.
- 39a. Stud, solid (new No. 224).
- 40. Nut.
- 41. Adjusting Stud.
- 44. Mold Knife.
- 44a. Mold Knife (new No. 254).
- 51. Disc.
- 51a. Four-mold Disc (new No. 381).
- 52. Locking Bushing.
- 57. Guide for Mold Disc.

For Mold Slide see sheet F, page 59.

For Mold Lever see sheet BB, page 33.

For Mold Gears see sheet F, page 65.

For Mold Cleaner see sheet E, page 53.

For Mold Guide Pin see sheet E, page 55.

MOLD (STATIONARY).

- 59. Body.
- 60. Cap.
- 61. Left-hand Liner.
- 62. Right-hand Liner.
- 63. Mold Keeper.
- 64. Cap Screw.
- 65. Body Screw.
- 116. Plug.
- 297. Mold, complete.

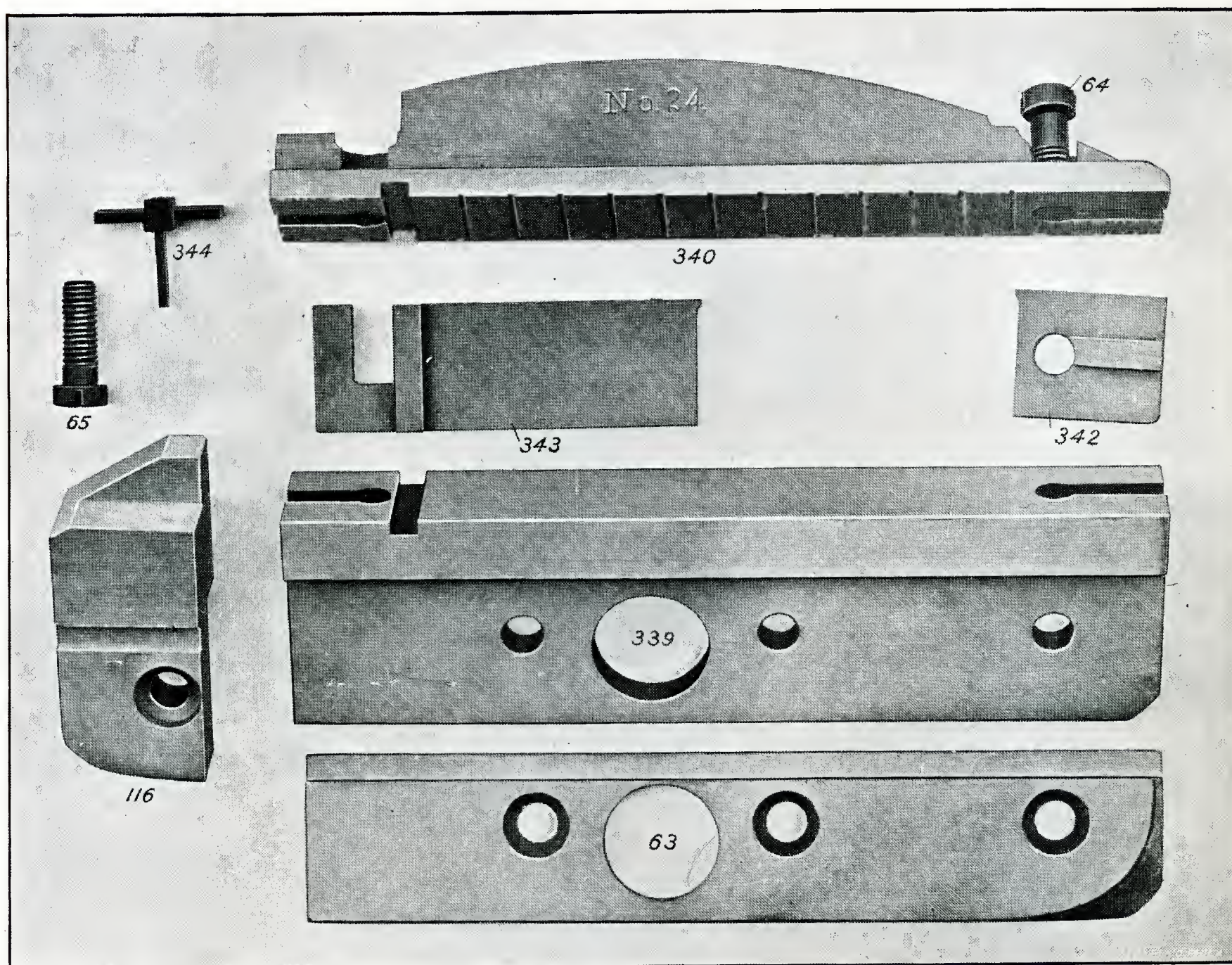
For Adjustable Mold see sheet F, page 63.

Special Mold and Liners made to order.

ADDRESS ALL ORDERS TO OTT. MERGENTHALER & CO., BALTIMORE, MD.

**WRITE YOUR ORDERS PLAIN AND DISTINCT, GIVING
SHEET, NUMBER AND NAME OF PARTS WANTED.**

Sheet F.



MOLDS FOR LESS THAN 14 EMS.

LINERS FOR No. 14 MOLD.

NO. OF LINER.	LENGTH OF LINE IT WILL CAST.
0	14 ems Pica.
$\frac{1}{2}$	$13\frac{1}{2}$ " "
1	13 " "
$1\frac{1}{2}$	$12\frac{1}{2}$ " "
2	12 " "
$2\frac{1}{2}$	$11\frac{1}{2}$ " "
3	11 " "
$3\frac{1}{2}$	$10\frac{1}{2}$ " "
4	10 " "
$4\frac{1}{2}$	$9\frac{1}{2}$ " "
5	9 " "
$5\frac{1}{2}$	$8\frac{1}{2}$ " "
6	8 " "
$6\frac{1}{2}$	$7\frac{1}{2}$ " "
7	7 " "
$7\frac{1}{2}$	$6\frac{1}{2}$ " "
8	6 " "
$8\frac{1}{2}$	$5\frac{1}{2}$ " "
9	5 " "

Sheet F.--Continued.

ADJUSTABLE MOLD.

- 339. Body.
- 340. Cap.
- 342. Right-hand Liner (old No. 62).
- 343. Left-hand Liner.
- 344. Separating Block.
- 63. Mold Keeper.
- 64. Cap Screw.
- 65. Body Screw.
- 116. Plug.
- 341. Mold (Adjustable), complete.

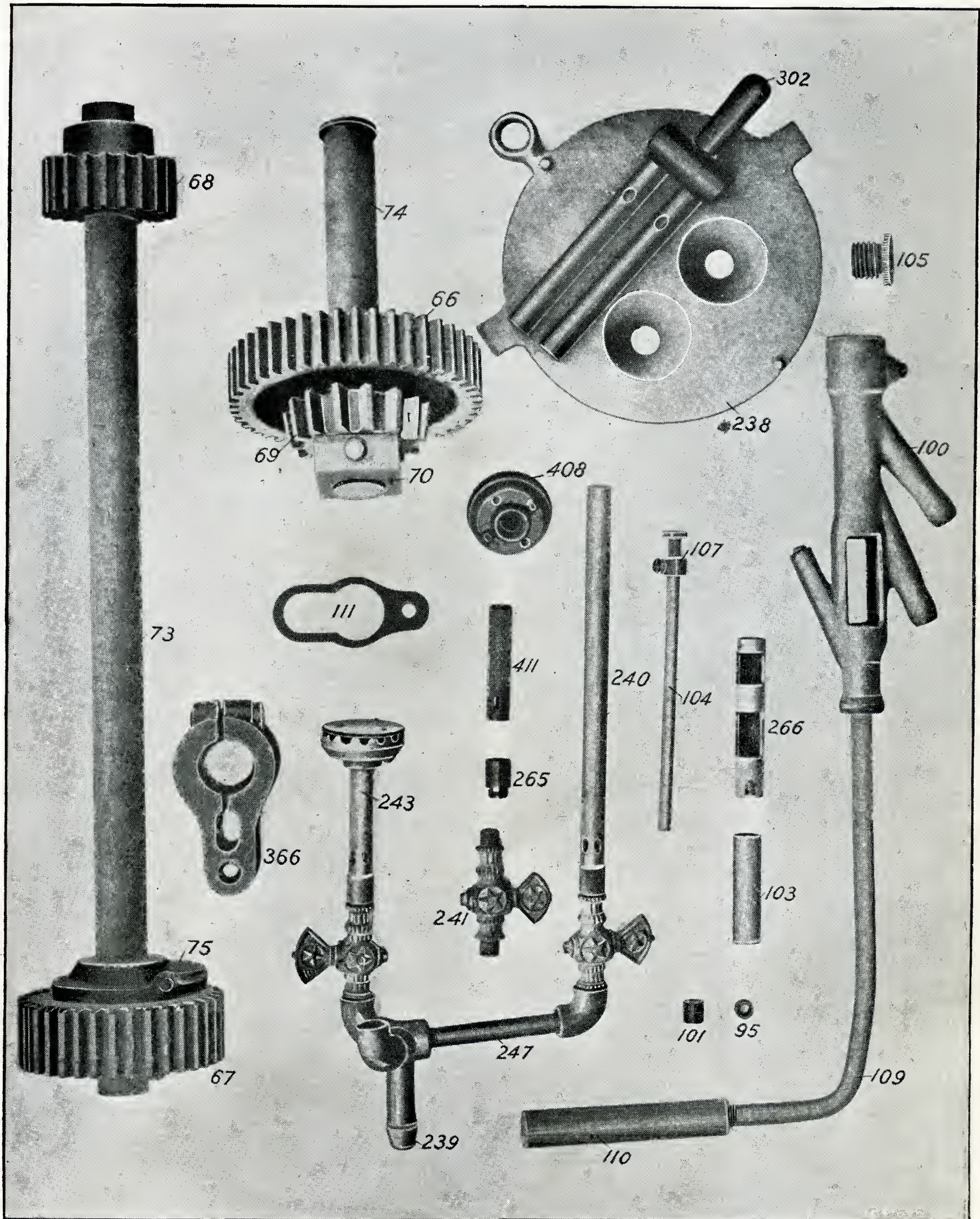
Liners for Adjustable Molds should be ordered according to the following tables:

LINERS FOR No. 30 MOLD.	
NO. OF LINER.	LENGTH OF LINE IT WILL CAST.
0	30 ems Pica.
$\frac{1}{2}$	$29\frac{1}{2}$ " "
1	29 " "
$1\frac{1}{2}$	$28\frac{1}{2}$ " "
2	28 " "
$2\frac{1}{2}$	$27\frac{1}{2}$ " "
3	27 " "
$3\frac{1}{2}$	$26\frac{1}{2}$ " "
4	26 " "
$4\frac{1}{2}$	$25\frac{1}{2}$ " "
5	25 " "
$5\frac{1}{2}$	$24\frac{1}{2}$ " "
6	24 " "
$6\frac{1}{2}$	$23\frac{1}{2}$ " "
7	23 " "
$7\frac{1}{2}$	$22\frac{1}{2}$ " "
8	22 " "
$8\frac{1}{2}$	$21\frac{1}{2}$ " "
9	21 " "
$9\frac{1}{2}$	$20\frac{1}{2}$ " "
10	20 " "
$10\frac{1}{2}$	$19\frac{1}{2}$ " "
11	19 " "

LINERS FOR No. 24 MOLD.	
NO. OF LINER.	LENGTH OF LINE IT WILL CAST.
0	24 ems Pica.
$\frac{1}{2}$	$23\frac{1}{2}$ " "
1	23 " "
$1\frac{1}{2}$	$22\frac{1}{2}$ " "
2	22 " "
$2\frac{1}{2}$	$21\frac{1}{2}$ " "
3	21 " "
$3\frac{1}{2}$	$20\frac{1}{2}$ " "
4	20 " "
$4\frac{1}{2}$	$19\frac{1}{2}$ " "
5	19 " "
$5\frac{1}{2}$	$18\frac{1}{2}$ " "
6	18 " "
$6\frac{1}{2}$	$17\frac{1}{2}$ " "
7	17 " "
$7\frac{1}{2}$	$16\frac{1}{2}$ " "
8	16 " "
$8\frac{1}{2}$	$15\frac{1}{2}$ " "
9	15 " "
$9\frac{1}{2}$	$14\frac{1}{2}$ " "
10	14 " "
$10\frac{1}{2}$	$13\frac{1}{2}$ " "
11	13 " "

**ALL OUR PARTS ARE TESTED TO FIT ANY MAKE OF
MACHINES, BALTIMORE OR BROOKLYN
MANUFACTURE.**

Sheet F.



Sheet F.--Continued.

MOLD GEARS.

- 66. Turning Gear.
- 67. Disc Pinion.
- 68. Driving Pinion.
- 69. Bevel Pinion.
- 70. Square Bush.
- 73. Driving Shaft (long).
- 74. Intermediate Shaft (short).
- 75. Flange.
- 366. Friction Clamp.

For Segment Gears see sheet C, page 35.

Note.—We also furnish Mold Gears and Shafts of the old construction.

GAS GOVERNOR.

- 95. Packing for Adjusting Tube.
- 96. Packing for Glass Tube.
- 100. Body (new No. 270).
- 101. Packing Collar.
- 103. Glass Tube.
- 104. Adjusting Tube, complete.
- 105. Plug.
- 107. Adjusting Collar.
- 109. Pipe for Mercury Holder.
- 110. Mercury Holder.
- 111. Bracket.
- 266. Inner Tube.
- 301. Gas Governor, complete.

For Gas Pressure Gauge, etc., see page 127.

For Gas Governor (plant) see page 127.

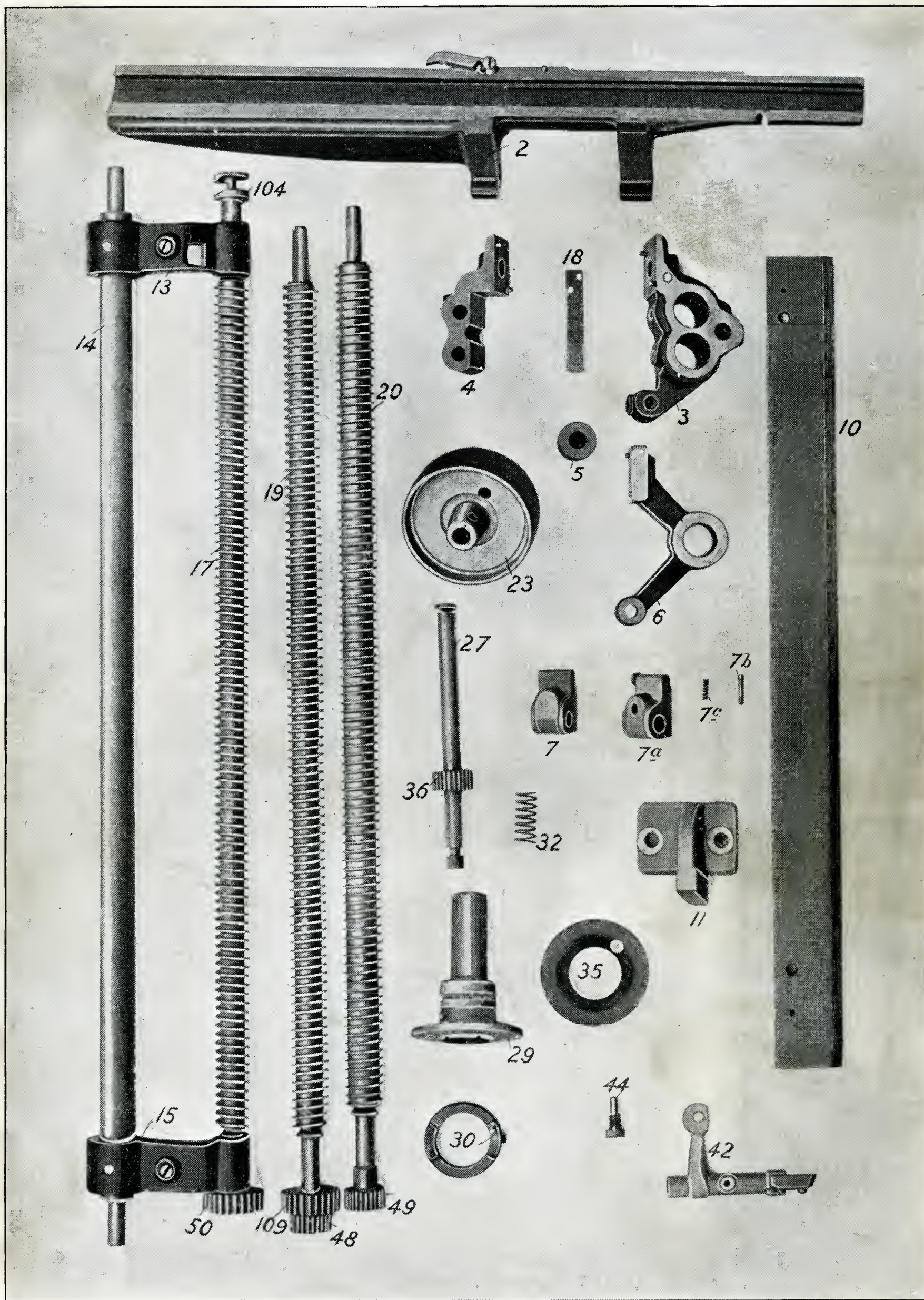
GAS BURNER.

- 238. Plate.
- 239. Feeder.
- 240. Long Tube.
- 241. Cock.
- 243. Short Burner (assembled).
- 247. Tube Nipple.
- 265. Tip.
- 302. Hand Burner.
- 408. Burner Top.
- 411. Short Tube.
- 305. Burner, complete.

Note.—In ordering old Burner parts not illustrated, please give corresponding number and, if possible, a rough sketch of what is wanted.

**ALL ORDERS RECEIVE OUR PROMPT AND IMMEDIATE
ATTENTION.**

Sheet G.



Sheet G.

DISTRIBUTOR BRACKETS, ETC.

2. Carriage Guide (new No. 151).
3. Right-hand Bracket for Front Screw.
4. Left-hand Bracket for Front Screw.
5. Bushing for Bearing.
6. Clutch Bracket.
7. Left-hand Bracket for Back Screw.
- 7a. Right-hand Bracket for Back Screw (new No. 201).
- 7b. Stop Pin for Bracket (new No. 129).
- 7c. Spring for Pin (new No. 130).
10. Bar (new No. 204).
11. Upper Guide for Second Elevator.

For Second Elevator see sheet G, page 69.

BACK SCREW, ETC.

13. Left-hand Bracket.
14. Shaft.
15. Right-hand Bracket.
16. Taper Pin for Shaft.
17. Back Screw (swinging).
18. Spring Catch.
50. Gear.
104. Cam.
206. Back Screw, complete.

FRONT SCREWS, ETC.

19. Upper Front Screw.
20. Lower Front Screw.
48. Upper Small Gear.
49. Lower Gear.
109. Upper Large Gear.
221. Both Upper Front Gears assembled.
207. Upper Front Screw, complete.
208. Lower Front Screw, complete.

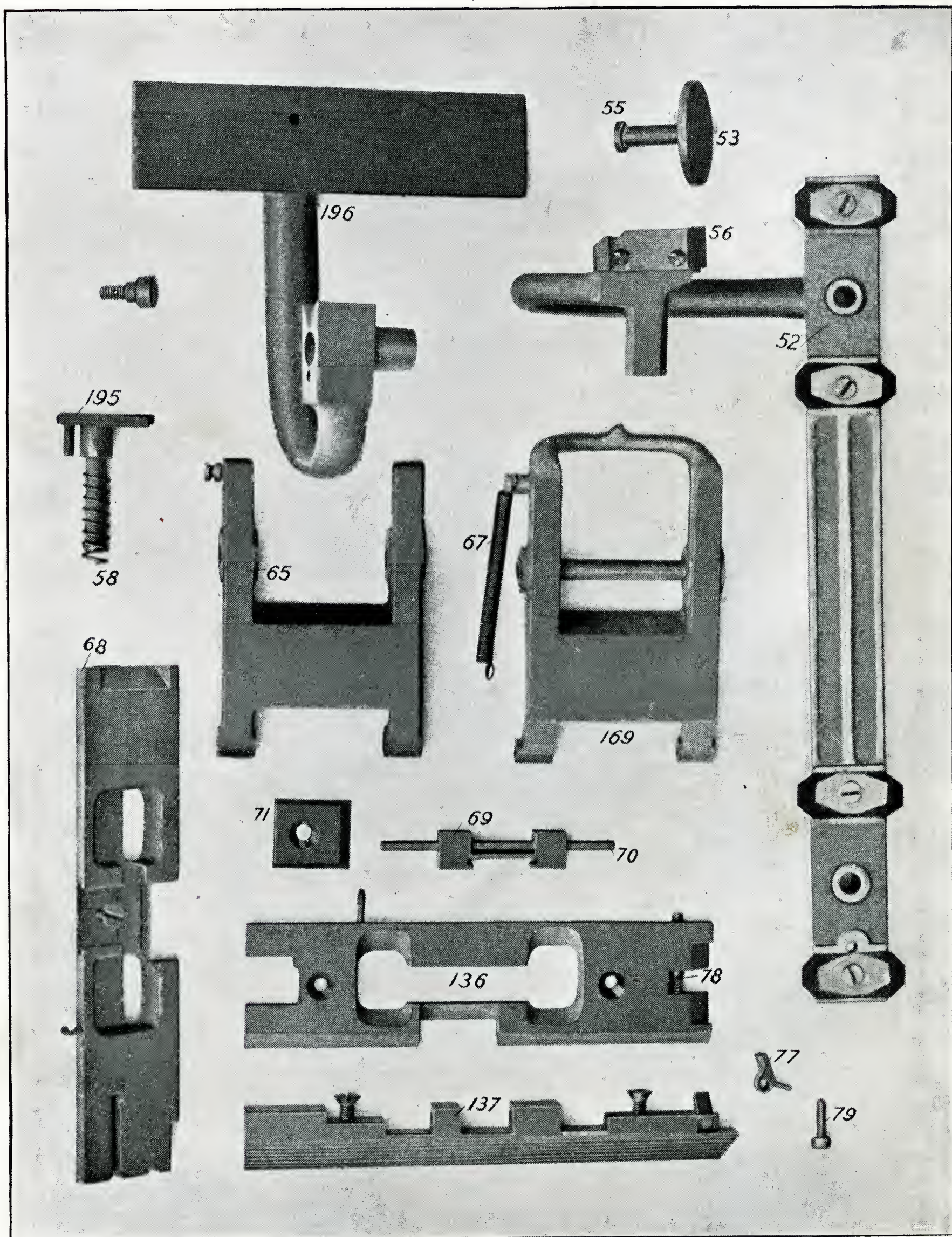
DISTRIBUTOR CLUTCH.

23. Pulley.
27. Shaft.
29. Friction Flange.
30. Stop Collar.
32. Spring for Clutch.
34. Key in Flange.
35. Leather Washer.
36. Pinion.
42. Spring Lever.
43. Spring for same.
44. Screw Pawl for Lever.

For Distributor Box see sheet G, page 71.

READ CAREFULLY REMARKS ON BOTTOM OF THE PAGES.

Sheet G.



Sheet G.--Continued.

DISTRIBUTOR SHIFTER CARRIAGE.

- 52. Carriage (casting).
- 53. Roller.
- 54. Washer.
- 55. Screw.
- 56. Matrix Pusher.
- 57. Pusher Pin.
- 58. Spring for Pusher.
- 225a. Distributor Shifter Carriage, complete.

For Face Plate Carriages see sheet D, page 47.

DISTRIBUTOR SHIFTER SLIDE.

- 195. Buffer, complete.
- 196. Slide.
- 225. Distributor Shifter Slide, complete.

For Distributor Shifter Lever see sheet B, page 29.

For Distributor Shifter Cam see sheet C, page 35.

For Distributor Box see sheet G, page 71.

SECOND ELEVATOR.

- 65. Bracket.
- 67. Spring for Bar.
- 68. Bar.
- 69. Bracket Holder.
- 70. Hinge Pin for Bar.
- 71. Sliding Plate.
- 77. Exit Pawl.
- 78. Spring for Pawl.
- 79. Stud for Pawl.
- 136. Plate.
- 137. Bar.
- 169. Link or Bracket.
- 211. Second Elevator, complete (136 and 137, etc.).

We also furnish Entrance Pawls, if required.

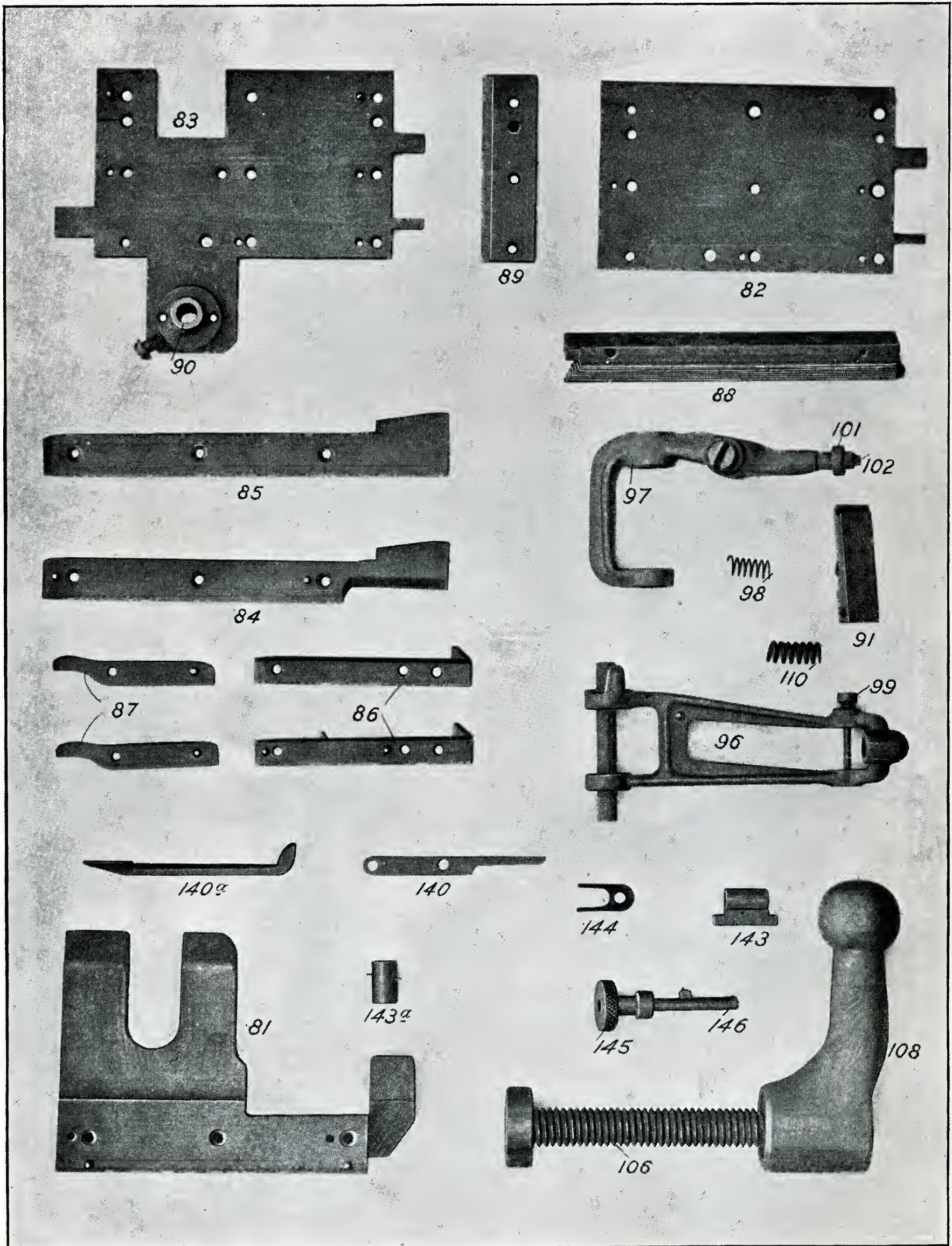
For Spring to raise Bracket see sheet B, page 25.

For Second Elevator Lever see sheet B, page 25.

For First Elevator see sheet E, page 53.

**IN ORDERING PARTS NOT ILLUSTRATED GET YOUR
MACHINIST TO MAKE A ROUGH SKETCH
OF WHAT IS WANTED.**

Sheet G.



Sheet G.--Continued.**DISTRIBUTOR BOX.**

- 81. Casting.
- 82. Front Plate.
- 83. Back Plate.
- 84. Upper Rail for Front Plate.
- 85. Upper Rail for Back Plate.
- 86. Lower Rail.
- 87. Tilting Rail.
- 88. Bar, complete (new No. 212).
- 88a. Point in Bar (new No. 154).
- 89. Bracing Strip.
- 90. Bearing for Lifting Lever.
- 91. Matrix Lift, complete.
- 96. Lift Lever.
- 97. Cam Lever.
- 98. Spring for Matrix Lift.
- 99. Screw for Matrix Lift.
- 101. Cam Roller.
- 102. Stud for Roller.
- 103. Pin for Stud.
- 106. Bolt.
- 108. Handle.
- 110. Spring for Cam Lever.
- 127. Adjusting Screw for Cam Lever.
- 140. Safety Spring.
- 140a. Safety Spring.
- 223. Distributor Box, complete.

For Distributor Carriage see sheet G, page 69.

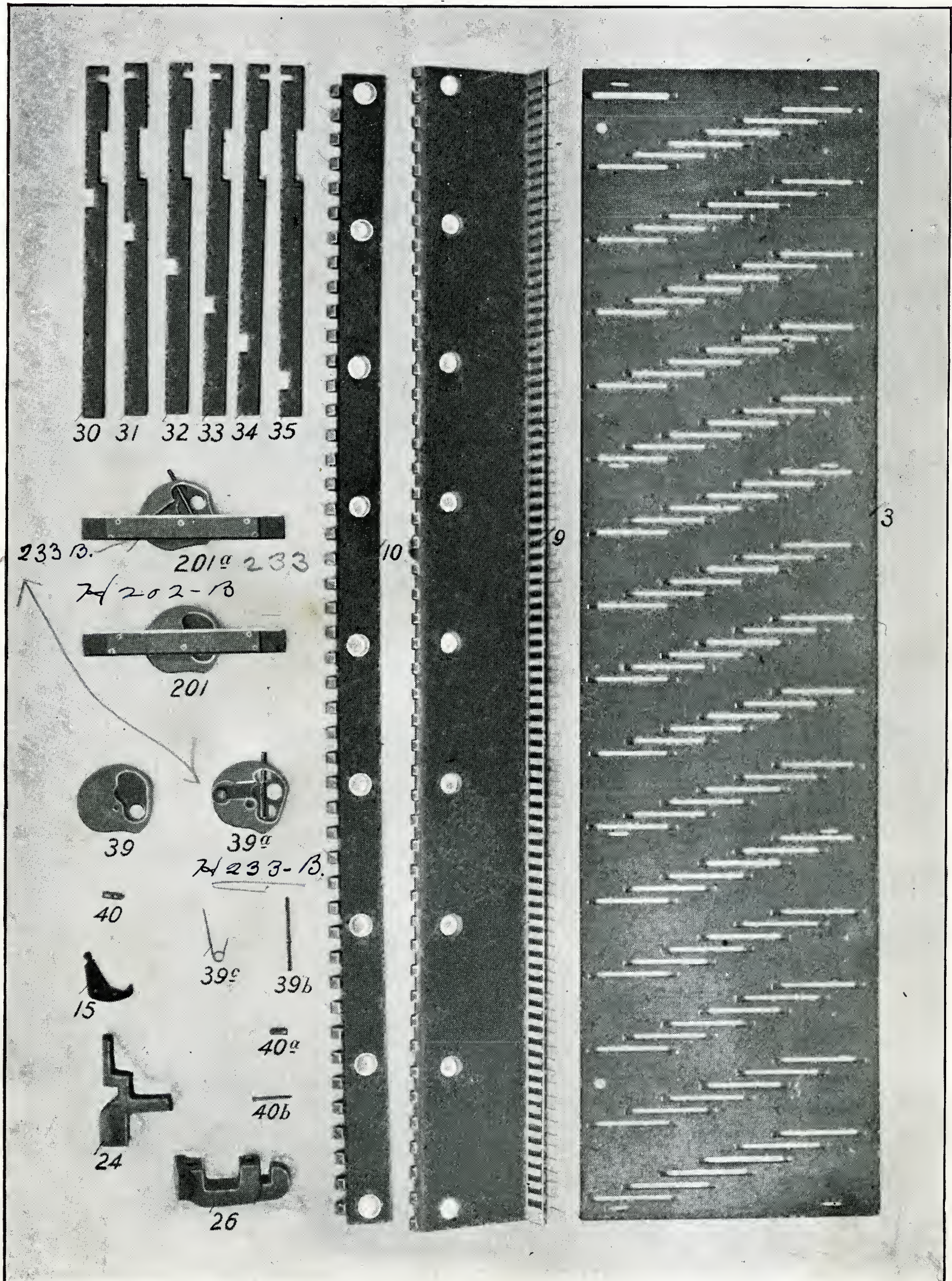
For Distributor Screws, etc., see sheet G, page 67.

FONT DISTINGUISHERS.

- 143. Block.
- 143a. Distinguisher (state the combination required).
- 144. Spring.
- 145. Nut.
- 146. Stud, complete.

GOODS WILL BE SHIPPED AT OWNER'S RISK, WE EXERCISING ALL POSSIBLE CARE IN PACKING SAME.

Sheet H.



Sheet H.

KEYBOARD PARTS.

- 3. Back Plate.
- 9. Lower Rod Guide (front) with Hooks.
- 10. Plain Hook Plate (back).
- 15. Cam Yoke Trigger.
- 24. Upper Bar Guide Bracket.
- 26. Lower Bar Guide Bracket.
- 30. Key Bar, first bank.
- 31. Key Bar, second bank.
- 32. Key Bar, third bank.
- 33. Key Bar, fourth bank.
- 34. Key Bar, fifth bank.
- 35. Key Bar, sixth bank.

Keyboard Parts continued on page 75.

KEYBOARD CAMS AND YOKE.

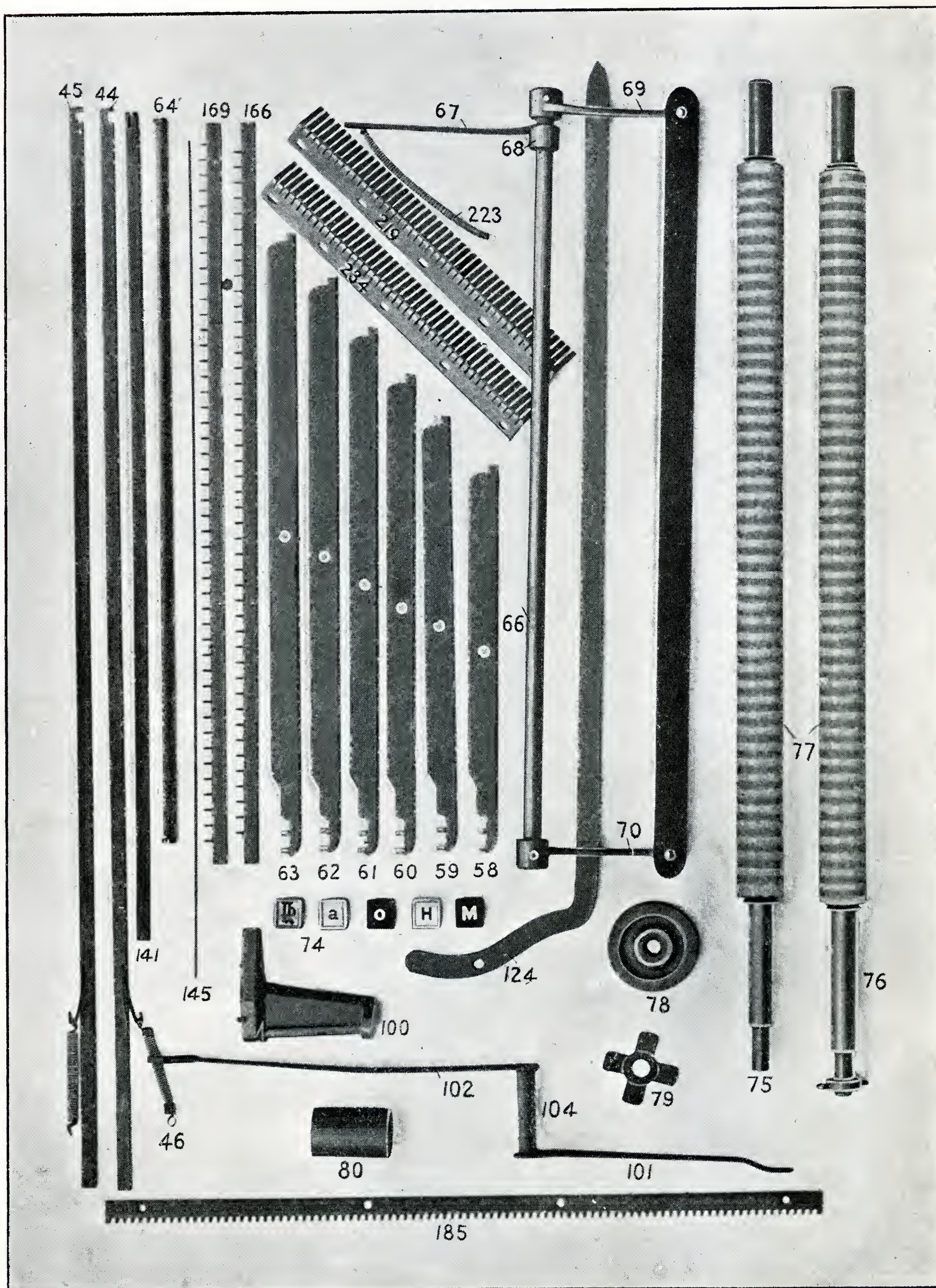
- 36. Yoke, assembled.
- 39. Cam (new No. 273).
- 39a. Cam (new No. 158).
- 39b. Movable Stopping Pin (new No. 159).
- 39c. Spring for Pin.
- 40. Axle for Cam.
- 40a. Bushing for Cam.
- 40b. Pin for Bushing.
- 158. Cam, same as 39a.
- 159. Movable Pin, same as 39b.
- 201. Cam and Yoke, complete (36 and 39).
- 201a. Cam and Yoke, complete (36 and 39a).

We also furnish Cams and Toggle Joints, etc., for the old Keyboard.

ADDRESS ALL ORDERS TO OTT. MERGENTHALER & CO., BALTIMORE, MD.

**SPECIAL ATTENTION IS CALLED TO OUR TIME-SAVING
DEVICES.**

Sheet H.



Sheet H.--Continued.

KEYBOARD PARTS (Continued).

- 44. Keyboard Rod (spring hole in front).
- 45. Keyboard Rod (spring hole in back).
- 46. Spring for Rod.
- 58. Key Lever, first bank.
- 59. Key Lever, second bank.
- 60. Key Lever, third bank.
- 61. Key Lever, fourth bank.
- 62. Key Lever, fifth bank.
- 63. Key Lever, sixth bank.
- 64. Fulcrum Rod.
- 74. Key Button (state what color, black letters on white or white letters on black ground).
- 75. Roller Shaft (back).
- 76. Roller Shaft (front).
- 77. Rubber Roll or Hose.
- 78. Pulley.
- 79. Friction Spring.
- 80. Bushing for Roller Shaft (new No. 122).
- 124. Locking Bar.
- 145. Hinge Rod.
- 166. Stop Strip for Cams (front).
- 169. Stop Strip for Cams (back).
- 185. Lower Key Bar Guide (back).
- 186. Lower Key Bar Guide (front), same as No. 185.
- 187. Upper Key Bar Guide, same as No. 185.
- 219. Comb Spring, lower case.
- 234. Comb Spring, upper case.

We also furnish the other Keyboard parts not illustrated.

For Assembling Elevator Lever see sheet BB, page 33.

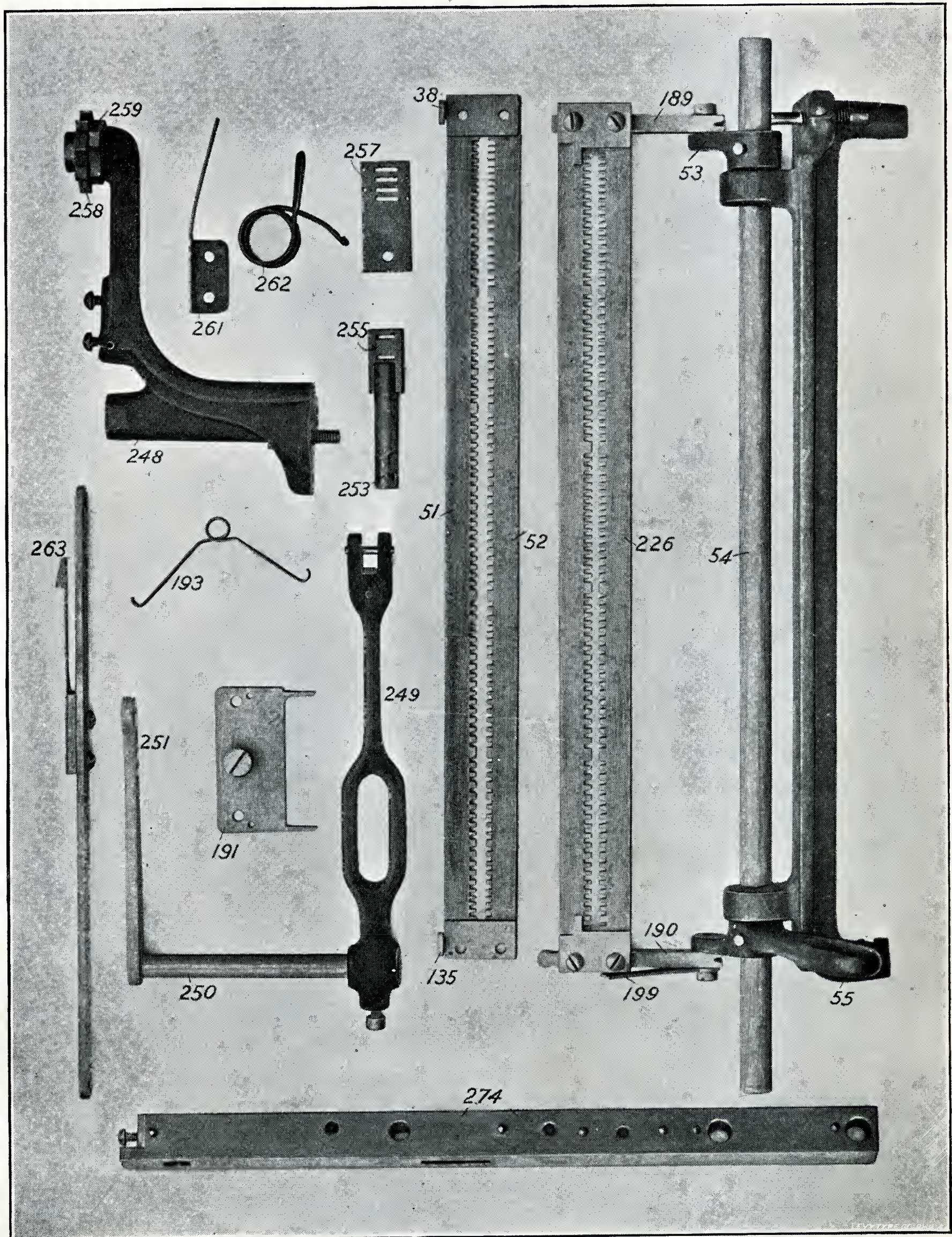
SPACE KEY LEVER AND PARTS.

- 66. Hinge Rod.
- 67. Steel Arm.
- 68. Bushing for Arm (new No. 128).
- 69. Right-hand Key Arm.
- 70. Left-hand Key Arm.
- 72. Key (wood).
- 100. Bracket.
- 101. Right-hand Lever Arm.
- 102. Left-hand Lever Arm.
- 104. Hub.
- 141. Space Key Rod.
- 212. Key Lever, complete (67 and 68).
- 216. Intermediate Lever, complete (101, 102, 104).
- 223. Spiral Spring for Space Key Arm.

For Spaceband Box see sheet D, page 45.

**PARTS HAVING TWO NUMBERS CAN BE ORDERED BY
GIVING EITHER NUMBER.**

Sheet H.



Sheet H.--Continued.

THROW-OUT RACK OR UPPER GUIDE FOR K. B. RODS.

- 38. Left-hand End Piece.
- 51. Front Plate. }
- 52. Back Plate. } If for Head Letter Magazine, state so.
- 53. Shaft Arm.
- 54. Shaft.
- 55. Handle.
- 135. Right-hand End Piece.
- 189. Left-hand Arm.
- 190. Right-hand Arm.
- 191. Guide Plate for Rod Guides.
- 193. Spring for same.
- 199. Latch.
- 226. Throw-out Rack, complete (38, 51, 52, 135).

For Rods, etc., see sheet H, page 75.

For Escapement see sheet J, page 81.

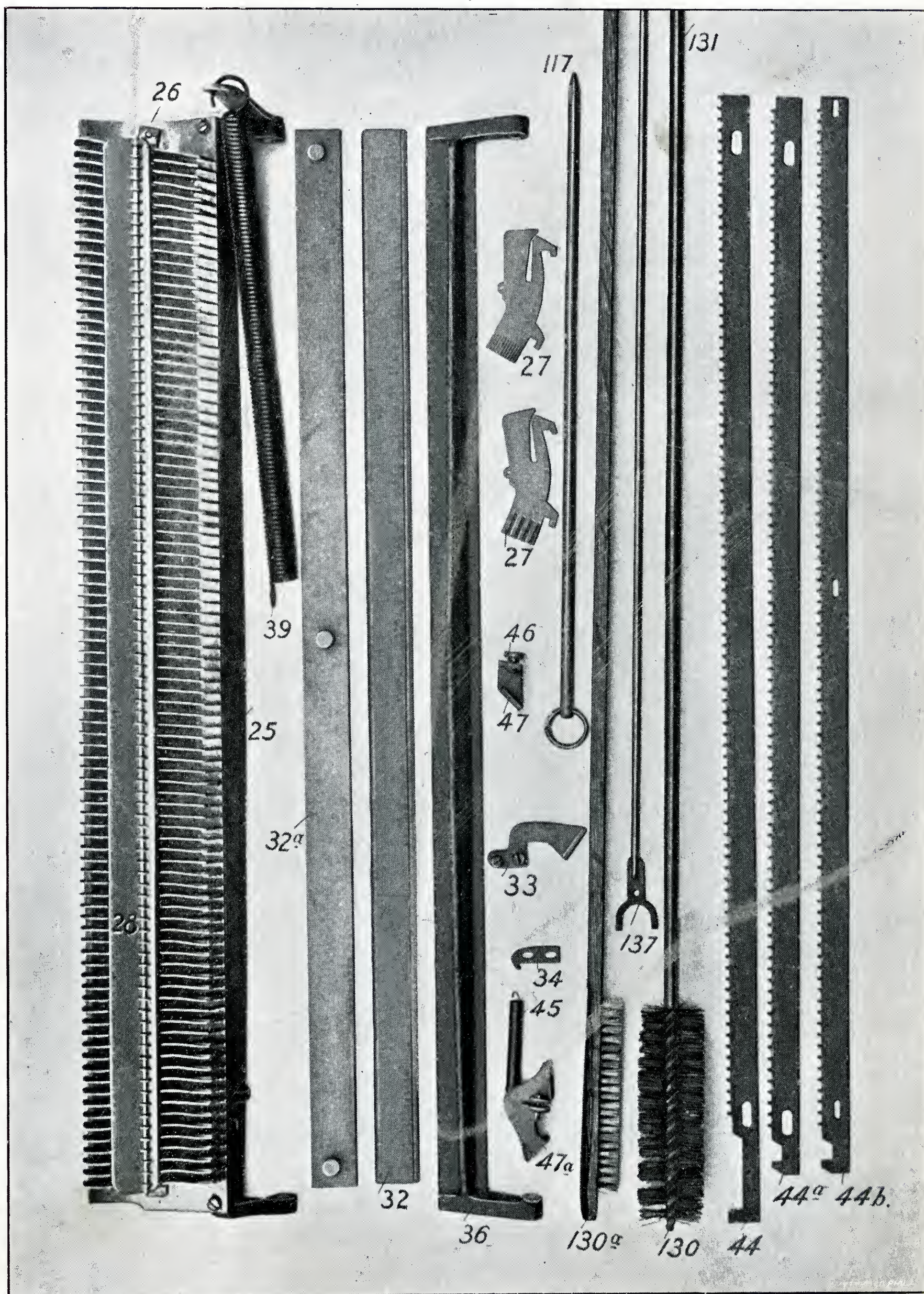
DOUBLE "E" AND "N" ATTACHMENT.

- 247. Post.
- 248. Bracket.
- 249. Lever.
- 250. Shaft.
- 251. Cam Lever.
- 253. Throw-out Rod.
- 255. Guide Plate (movable).
- 257. Guide Plate (stationary).
- 258. Ratchet.
- 259. Cam.
- 261. Locking Spring.
- 262. Lever Spring.
- 263. Spring Pawl.
- 267. Key Rod, long.
- 268. Key Rod, short.
- 269. Spiral Spring for Short Rod.

For Keyboard parts see sheet H, page 73.

ALWAYS KEEP SOME RESERVE PARTS ON HAND.

Sheet I.



Sheet I.

CHANNEL ENTRANCE.

- 25. Frame (new No. 147).
- 26. Segment Plate (new No. 150).
- 27. Partition, fine crimped.
- 27. Partition, medium crimped.
- 27. Partition, coarse crimped.
- 28. Locking Strip.
- 32. Glass.
- 32a. Plate, substitute for Glass (new No. 139).
- 33. Glass-holder Bracket.
- 34. Hook.
- 36. Matrix Guard.
- 39. Spring for Entrance.
- 44. Rack.
- 44a. Rack.
- 44b. Rack (new No. 142).
- 45. Spring for Rack.
- 46. Shoulder Screw for Rack.
- 47. Bracket for Rack.
- 47a. Bracket for Rack (new No. 141).
- 117. Matrix Stop Rod.
- 130. Brush.
- 130a. Flat Brush.
- 131. Handle for Spiral Brush.
- 137. Matrix Hook.
- 142. Rack, same as 44b.
- 149. Channel Entrance, complete.

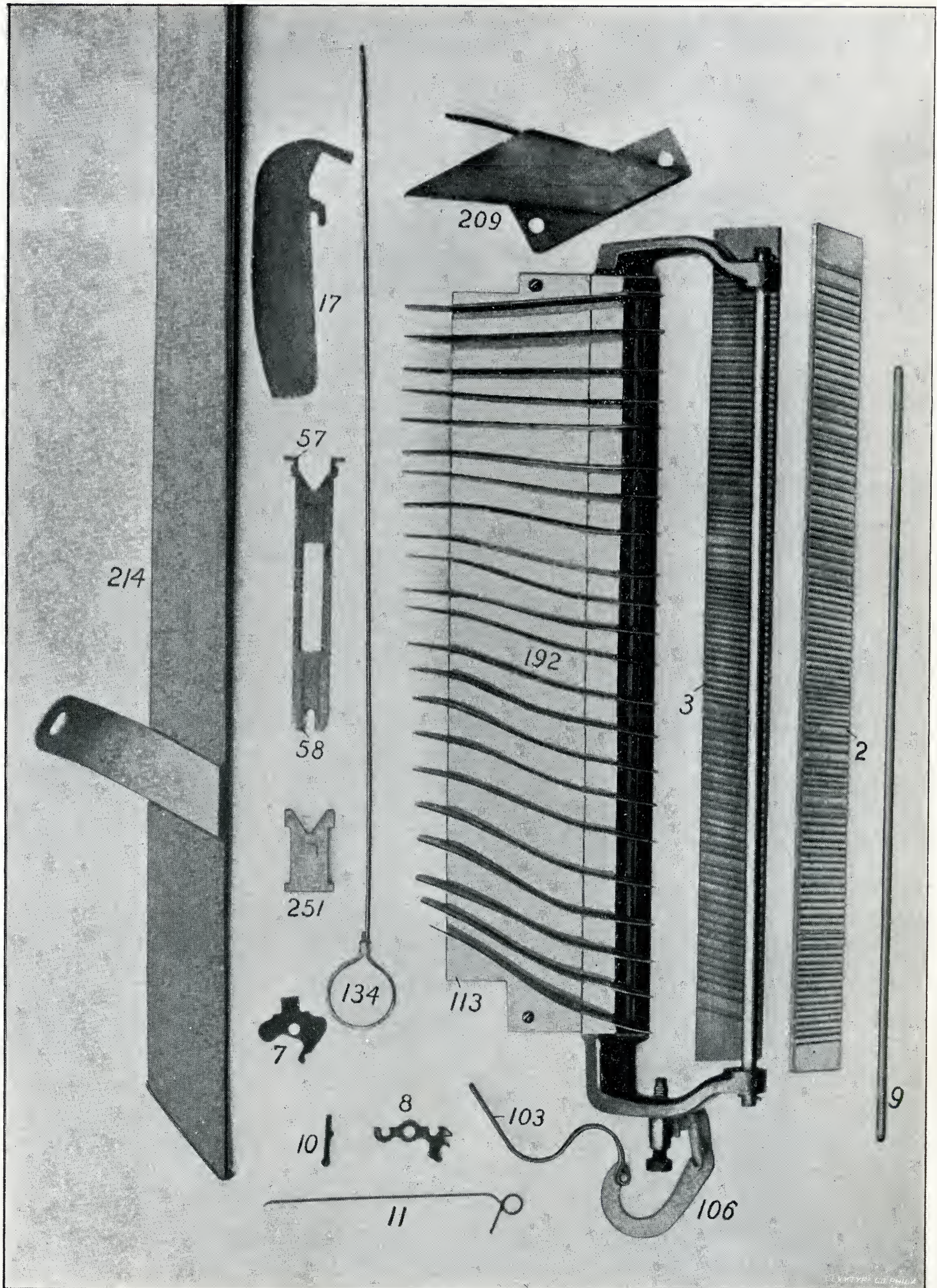
For Channel Outlet see sheet J, page 81.

Note.—Our Flat Magazine Brush is the best to thoroughly clean the channels.

ORDERS FOR SUPPLIES SHOULD BE WRITTEN IF POSSIBLE ON OUR ORDER
BLANKS FURNISHED GRATIS.

**STATE ON EACH ORDER HOW YOU WISH GOODS SHIPPED,
WHETHER BY FREIGHT, EXPRESS, OR
REGISTERED MAIL.**

Sheet J.



Sheet J.

ESCAPEMENT.

- 2. Bar.
- 3. Channel.
- 7. Partition.
- 8. Verge.
- 9. Hinge Rod.
- 10. Pawl.
- 11. Spring for Verge.
- 17. Guide (new No. 173).
- 134. Locking Rod.

For Top Guide of Key Rods see sheet H, page 77.

SPACEBANDS.

- 57. Band.
- 58. Slide.

Note.—Repairing of Bands a specialty.

FLEXIBLE FRONT.

- 103. Spring Hinge for Flexible Front.
- 106. Right-hand Bracket.
- 113. Plate.
- 192. Flexible Front, complete.

For Entrance for Assembler see sheet D, page 41.

COPY HOLDER (not illustrated).

Each and every part will be furnished upon application.

PI BOXES.

- 209. Tube Entrance.
- 214. Tube.
- 219. Pi Box.
- 220. Felt.
- 221. Bracket.

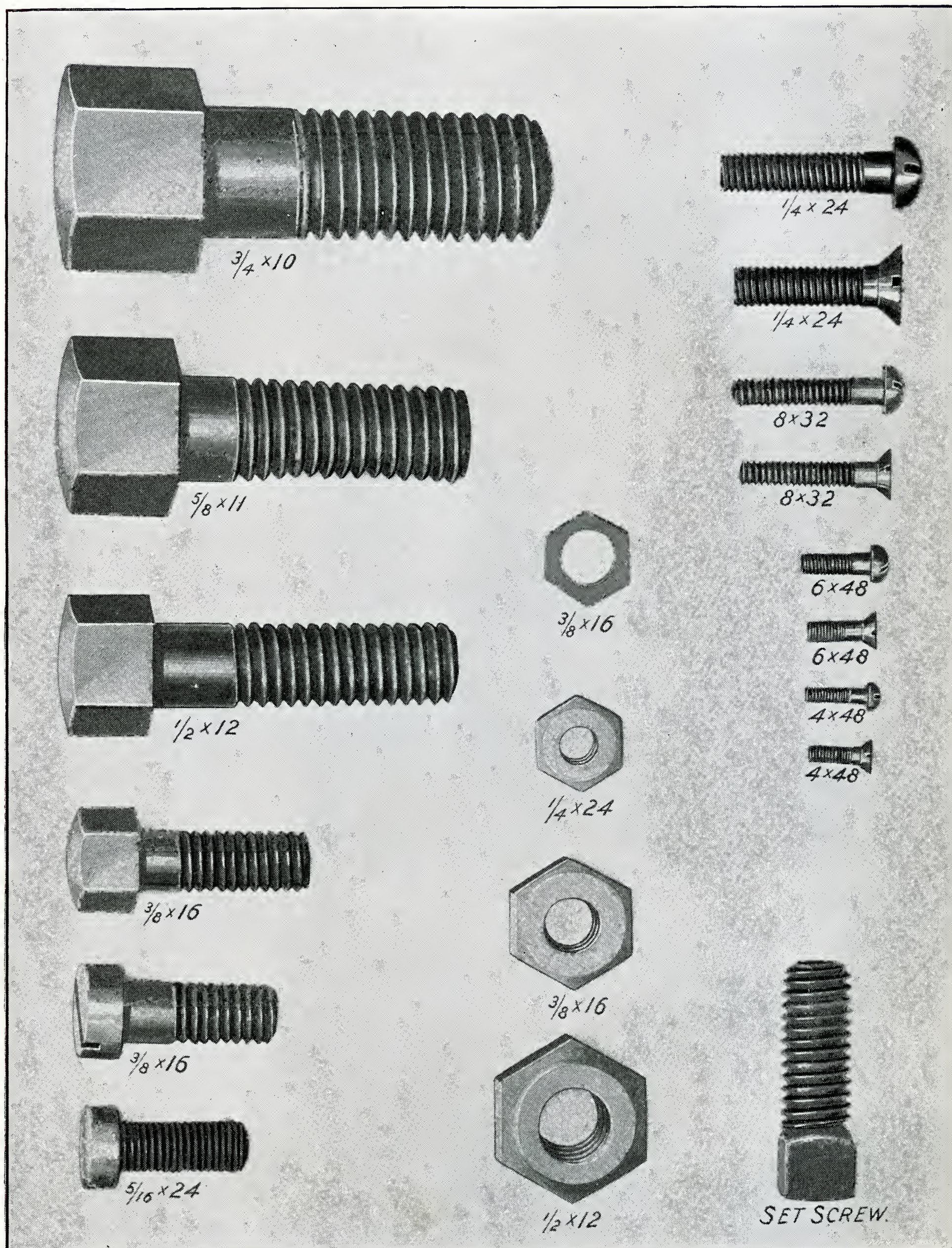
SORT BOXES.

- 231. Sorts Box, complete, small size.
- 240. Sorts Box, complete, large size.
- 250. Sorts Box, fastened to front of Face Plate as shown on page 109.
- 251. Quad Block, cut to length.
- 252. Matrix Tray (pine).

Note.—To offices having trouble with sticks in the pi-tube, we recommend our funneled round tube that dispenses with the entrance piece now required.

REPAIRING OF SPACEBANDS A SPECIALTY.

Screws and Nuts.



Screw and Nut List.

In ordering Standard Stock Screws, simply state size of thread, length of body, and style of head.

In ordering special made Screws, such as Shoulder Screws, etc., see parts to which they belong and state sheet and number given.

STANDARD STOCK SCREWS.

4 x 48	Round Head.
4 x 48	Flat Head.
6 x 48	Round Head.
6 x 48	Flat Head.
8 x 32	Round Head.
8 x 32	Flat Head.
$\frac{1}{4}$ x 24	Round Head.
$\frac{1}{4}$ x 24	Flat Head.
5-16 x 24	Round Head.
$\frac{3}{8}$ x 16	Round Head.
$\frac{3}{8}$ x 16	Hexagon Head.
$\frac{1}{2}$ x 12	Hexagon Head.
$\frac{5}{8}$ x 11	Hexagon Head.
$\frac{3}{4}$ x 10	Hexagon Head.

SQUARE HEAD SET SCREWS.

$\frac{1}{4}$ x 20	Square Head.
5-16 x 18	Square Head.
$\frac{3}{8}$ x 16	Square Head.
7-16 x 14	Square Head.
$\frac{1}{2}$ x 12	Square Head.

NUTS.

$\frac{1}{4}$ x 24	Hexagon.
$\frac{3}{8}$ x 16	Thin Nut.
$\frac{3}{8}$ x 16	Standard Hexagon.
$\frac{1}{2}$ x 12	Standard Hexagon.

ADDRESS ALL ORDERS TO OTT. MERGENTHALER & CO., BALTIMORE, MD.

**WRITE YOUR ORDERS PLAIN AND DISTINCT, GIVING
SHEET, NUMBER AND NAME OF PARTS WANTED.**

GENERAL HINTS.

FOR THE BENEFIT OF THOSE ORDERING GOODS.

Address your orders directly to Ott. Mergenthaler & Co.,
Baltimore, Md.



Write your orders plainly and distinctly, giving sheet, number,
and name of parts wanted.



When you write for supplies use our order blanks, furnished
gratis.



State on each order how you wish goods shipped, whether by
freight, express or registered mail.



Parts having two numbers can be ordered by either number.



Standard parts kept in stock, when ordered by mistake, may
be returned within 10 days if prepaid.

(OVER)

GENERAL HINTS.—Continued.

FOR THE BENEFIT OF THOSE ORDERING GOODS.

When ordering parts not illustrated, have your machinist make a rough sketch of that which is wanted. This would be well also when ordering such new parts as may be devised after the issue of this catalogue. Supplemental sheets of the latter, however, will be furnished from time to time, illustrating and numbering the new changes and improvements which are constantly added to the Mergenthaler machine.



All orders receive our immediate and careful attention, and in most cases shipment can be made on date of receipt of order, or the day after.



Goods will be shipped at owner's risk, we exercising all possible care in packing them.



Always keep some reserve parts on hand ; it pays.

(SEE PREVIOUS PAGE.)

Index.

A	PAGE.
Adjustable Mold	63
Air Pump	43
Assembler	39
Assembler Slide	39
Assembler Slide Stop, Improved	115
Assembling Elevator	41
Assembling Elevator Lever	33
Assembling Entrance	41
Assembling Pi Box	109
Attachment, Double E & N	77
Attachment, Magazine	103
Attachment, Magazine	105
Attachment, Matrix Guide for 2nd Elevator.....	113
Attachment, Movable Right-hand Jaw	107
Attachment, Run-out Channel or Stick	113
Automatic Pawls	37
Automatic Stop in Vise	51
Automatic Stop Lever	31

B	
Belts	37
Bracket, Cam Shaft	23
Bracket, Distributor	67
Box, Chase	55
Box, Distributor	71
Box, Sorts	81
Box, Spaceband	45
Brush, Mold	53
Brush, Rotary	117

C	
Cams	35
Carriages, Delivery (see also Slide)	47
Carriage, Distributor Shifter (see also Slide)	69
Carriage, Elevator Transfer (see also Slide)	47
Channel, Delivery	43
Channel Entrance	79
Channel, Intermediate	43

	PAGE.
Chase	55
Chase Box, Improved	115
Cleaner, Knife	55
Cleaner, Magazine	79
Cleaner, Mold	53
Clutch, Distributor	67
Clutch, Intermediate	37
Clutch, Main Shaft	35
Comb Spring, Keyboard	75
Copy Holder	81

D

Delivery Carriages and Slides	47
Delivery Channel	43
Delivery Lever	25
Delivery Lever Cam	35
Disc, Mold	61
Distributor Bar	67
Distributor Box	71
Distributor Brackets, etc.	67
Distributor Clutch	67
Distributor Screw, Back	67
Distributor Screw, Front	67
Distributor Shifter Carriage	69
Distributor Shifter Lever	29
Distributor Shifter Slide	69
Dog in Vise	51
Double E & N Attachment	77
Driving Gear	35
Driving Shaft	35

E

Ejector Cam	35
Ejector Levers	33
Ejector Slides	59
Ejector Blades	59
Elevator, Assembling	41
Elevator Cams	35
Elevator, First	53
Elevator, Second	69
Elevator Lever, Assembling	33
Elevator Lever, First	31
Elevator Lever, Second	25
Elevator Transfer Carriage and Slide	47
Elevator Transfer Lever	27

	PAGE.
Entrance for Assembler	41
Entrance for Magazine	79
Escapement	81
Escapement Pawls and Verges	81

F

Face Plate Sorts Box	109
First Elevator Jaws	53
First Elevator Lever	31
First Elevator Link	29
Flexible Front	81
Font Distinguisher	71

G

Galley or Chase Box	55
Gas Burner	65
Gas Furnaces	125
Gas Governor (on machine)	65
Gas Pressure Governor (on plant)	127
Gas Pressure Water Gauge	127
Gauge, Matrix Body	111
Gauge, Matrix Tooth	111
Gauge, Spaceband	111
Guide Stud and Block for Mold	55

I

Improved Assembler Slide Stop	115
Improved Chase Box	115
Improved Left-hand Vise Jaw	115
Intermediate Channel	43
Intermediate Clutch	37
Intermediate Partitions	79

J

Jaws, First Elevator	53
Jaws, Vise	49
Justification Cam	35
Justification Lever and Roller, etc.	31
Justification Slide and Block, etc.	51

K

Keyboard Belts	37
Keyboard Button	75
Keyboard Cams and Yoke	73
Keyboard Parts, Rods, Keys, etc.	73 & 75
Keyboard Rollers (rubber)	75

	PAGE.
Knife Blocks	49
Knife Wipers or Cleaners	55
Knives, Mold	61
Knives, Vise	49

L

Lever, Assembling Elevator	33
Lever, Automatic Stop	31
Lever, Distributor Shifter	29
Lever, Elevator Transfer	27
Lever, Ejector	33
Lever, First Elevator	31
Lever, Justification	31
Lever, Line Delivery	25
Lever, Mold	33
Lever, Pot	27
Lever, Pump	33
Lever, Second Elevator	25
Lever, Slug	29
Lever, Spaceband	27
Lever, Space Key	75
Lever, Stopping and Starting	55
Lever, Vise-closing	31
Linotype Rotary Brush	117
Linotype Saw Table	121
Linotype Slug Planer	119
Linotype Metal Recasting Machine	123

M

Magazine, parts of it	81
Magazine Attachment	103
Magazine Attachment	105
Magazine Brush	79
Magazine Support, etc.	23
Matrix Body Gauge	111
Matrix Guide for Second Elevator	113
Matrix Run-out Channel or Stick	113
Matrix Tooth Gauge	111
Metal Recasting Machine	123
Mold, Stationary	61
Mold, Adjustable	63
Mold Bushing	61
Mold Cam	35
Mold Cleaner or Wiper	53
Mold Discs	61
Mold Gears	65

	PAGE.
Mold Gear Arm	23
Mold Knife	61
Mold Levers	33
Mold Slides	59
Mold Screws	61
Mold Turning Cam	35
Movable Right-hand Jaw Attachment	107

P

Pawls, Automatic	37
Pawls, Assembling Elevator	41
Pawls, Escapement	81
Pawls, First Elevator	53
Pawls, Interm. Clutch	37
Pawls, Spaceband Box	45
Pawls, Vise	51
Pi Box, Assembling	109
Pi Boxes	81
Pins (see parts to which they belong).	
Pot and Parts	57
Pot Cam	35
Pot Lever and Rollers	27
Pot Lever Connection	57
Pot Plungers	57
Pump, Air	43
Pump Cam	35
Pump Lever	33
Pulley, Assembler	39
Pulley, Distributor	67
Pulleys, Driving	35
Pulley, Intermediate	37
Pulley, Keyboard	75

Q

Quads	81
Quad Box	43

R

Recasting Mold for Linotype Metal	123
Rollers (see parts to which they belong).	
Rotary Brush, Linotype	117

S

Saw Table, Linotype	121
Screws and Nuts	83

	PAGE.
Second Elevator	69
Second Elevator Cam	35
Second Elevator Lever	25
Shoulder Screws (see parts to which they belong).	
Slide, Assembler	39
Slide, Delivery	47
Slide, Distributor Shifter	69
Slide, Elevator Transfer	47
Slide, Ejector	59
Slide, Justification	51
Slide, Mold	59
Slug Lever	29
Slug Planer	119
Sorts Box	81
Sorts Box, Face Plate	109
Spacebands	81
Spaceband Box	45
Spaceband Gauge	111
Spaceband Lever	27
Spaceband Shifter	47
Space Key Lever and Parts	75
Springs (see parts to which they belong).	
Stopping and Starting Lever	55
Studs, Vise	53

T

Table, Linotype Saw	121
Thermometer	127
Throw-out Rack or Upper Guide	77
Top Guide for First Elevator	43
Top Guide for Key Rods	77

V

Vise, Automatic Stop	51
Vise-closing Lever	31
Vise Jaw-closing Arrangement	49
Vise Jaw, Left-hand, Improved	115
Vise Jaw, Movable Right-hand Attachment	107
Vise Jaws and Parts	49
Vise Knives	49
Vise Studs and Screws	53

W

Wiper, Knife	55
Wiper, Mold	53

**Linotype
Improvements**

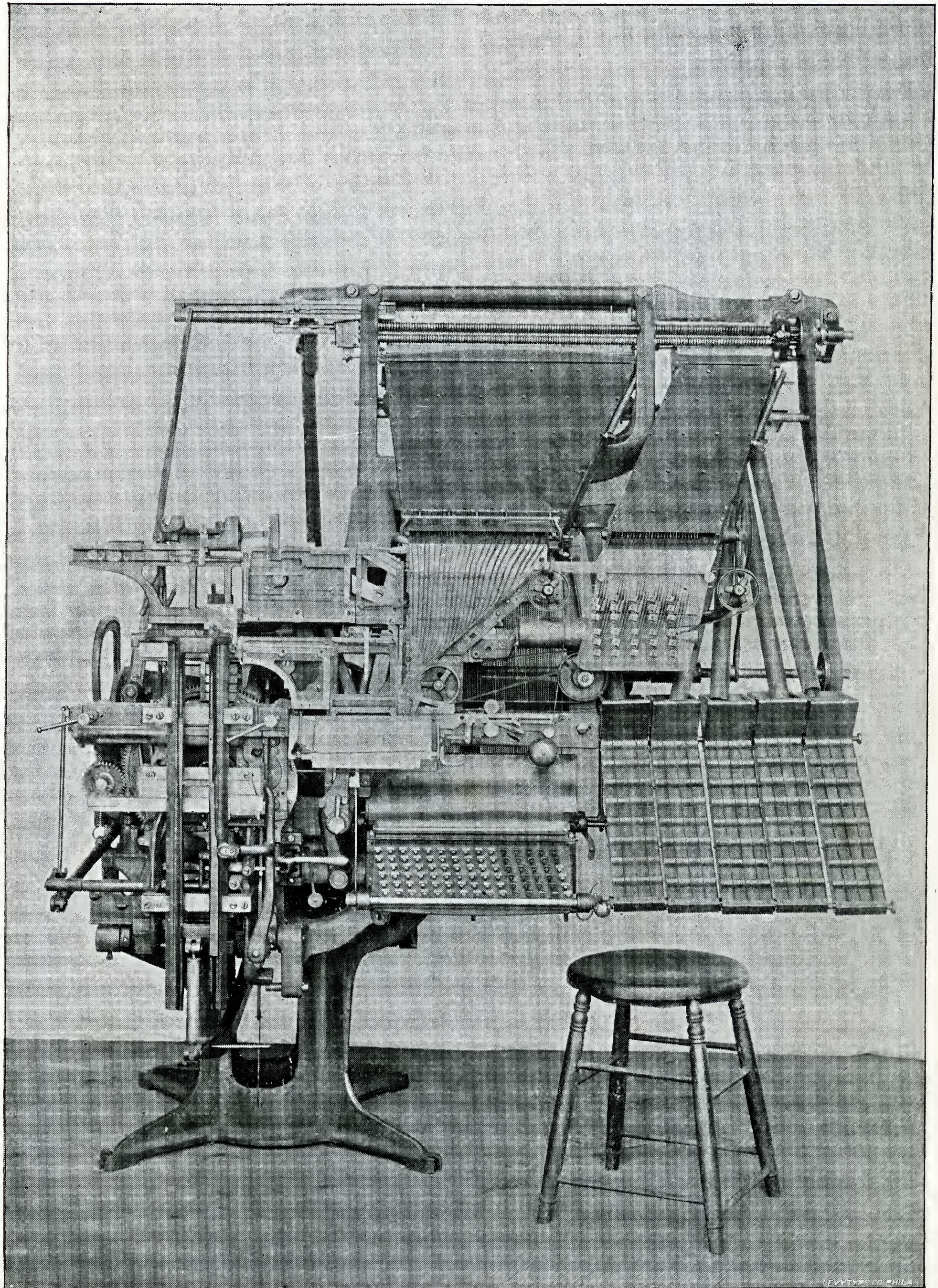
and

Linotype

Office

Implements.

Small Magazine Attachment.



Magazine Attachments.

(Patents applied for.)

The attachments shown on page 102 and page 104 cover a long-felt want in newspaper offices, and particularly in book and job offices, where many additional matrices of a different font, such as *italics*, *bold faces*, *small caps*, etc., are to appear in the regular print. Up to the present such work had to be done by hand, a rather inconvenient and expensive method, especially when required to a considerable extent, making it necessary to employ an extra man or boy for assembling and assorting such matrices.

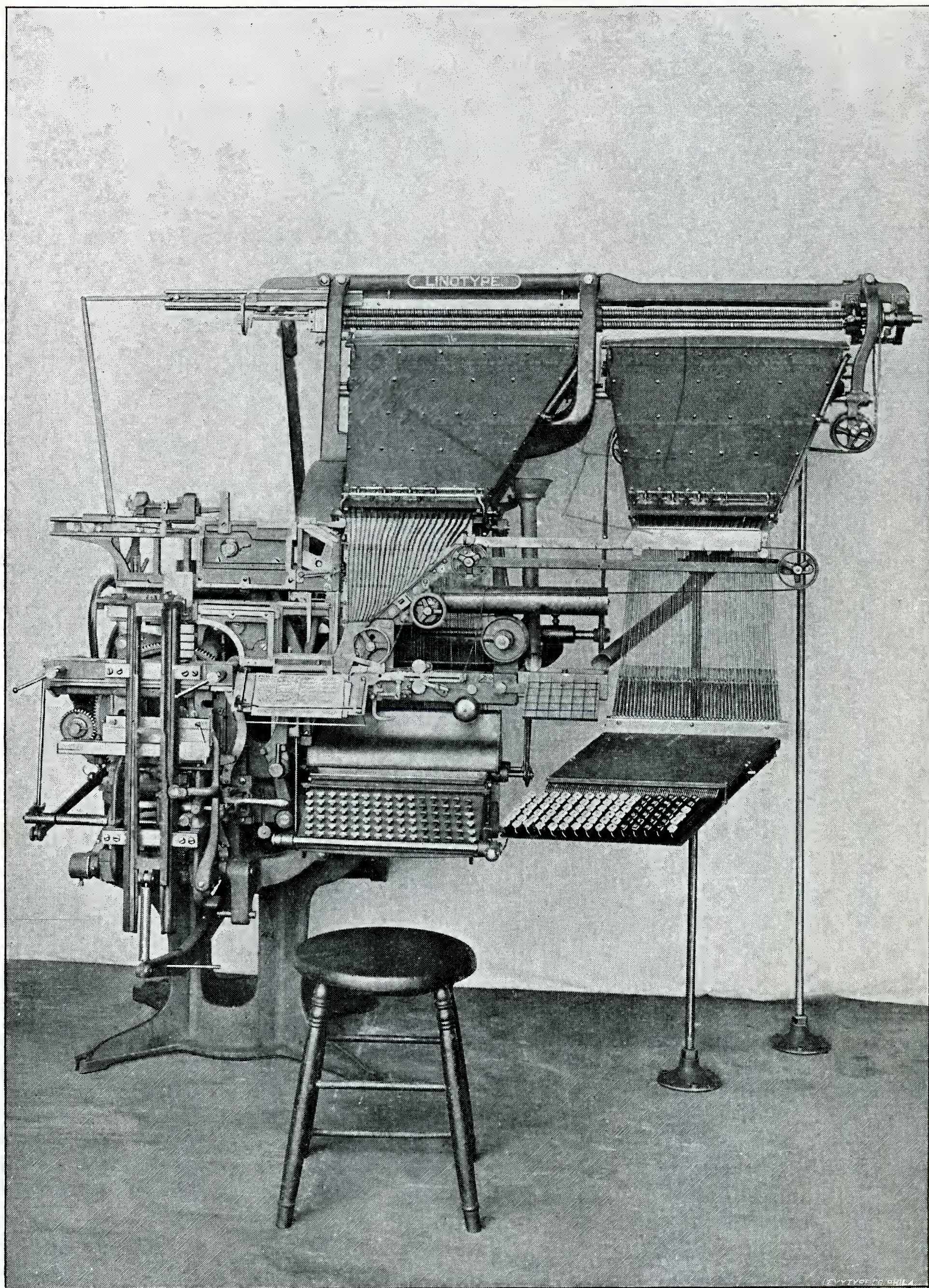
Using the attachments, however, all this trouble is overcome, the operator *mechanically inserts* the extra matrices by means of an additional keyboard connected to a magazine that contains the matrices, and into which they return automatically. *Thus it will be seen without further explanation what savings, etc., are involved, and how, in connection with our other improvements shown in this catalogue, they tend toward making the linotype machine as economical for book, job and small offices* (the main field that now remains to be covered) *as they are for newspapers.*

The attachment shown on page 102 will hold thirty characters, an amount sufficient for a full set of lower case matrices (*italics* or *blacks*, etc.), while the less used caps, figures, etc., may run into the various pi boxes placed alongside of the present keyboard. For instance, the figures may run in a box of their own, while the caps may be divided in one or two of the others. Special characters, such as Greek, French, etc., may take possession of the remaining boxes.

This magazine, although limited to thirty different matrices, being entirely automatic in its operation will cover the requirements of many cases: for instance, if loaded with small caps, which can often be substituted for *italics*, *bold faces*, etc., they can be used to a large extent, with no additional work to the operator. In such a case the various sort boxes may be dispensed with.

As will be seen the keyboard is directly attached to the magazine and the buttons placed on long key levers, so as to be in easy reach of the operator. The matrices used in this magazine are of the standard pattern, and no change or alteration is made on them.

Large Magazine Attachment.



Magazine Attachment.

(Patent applied for.)

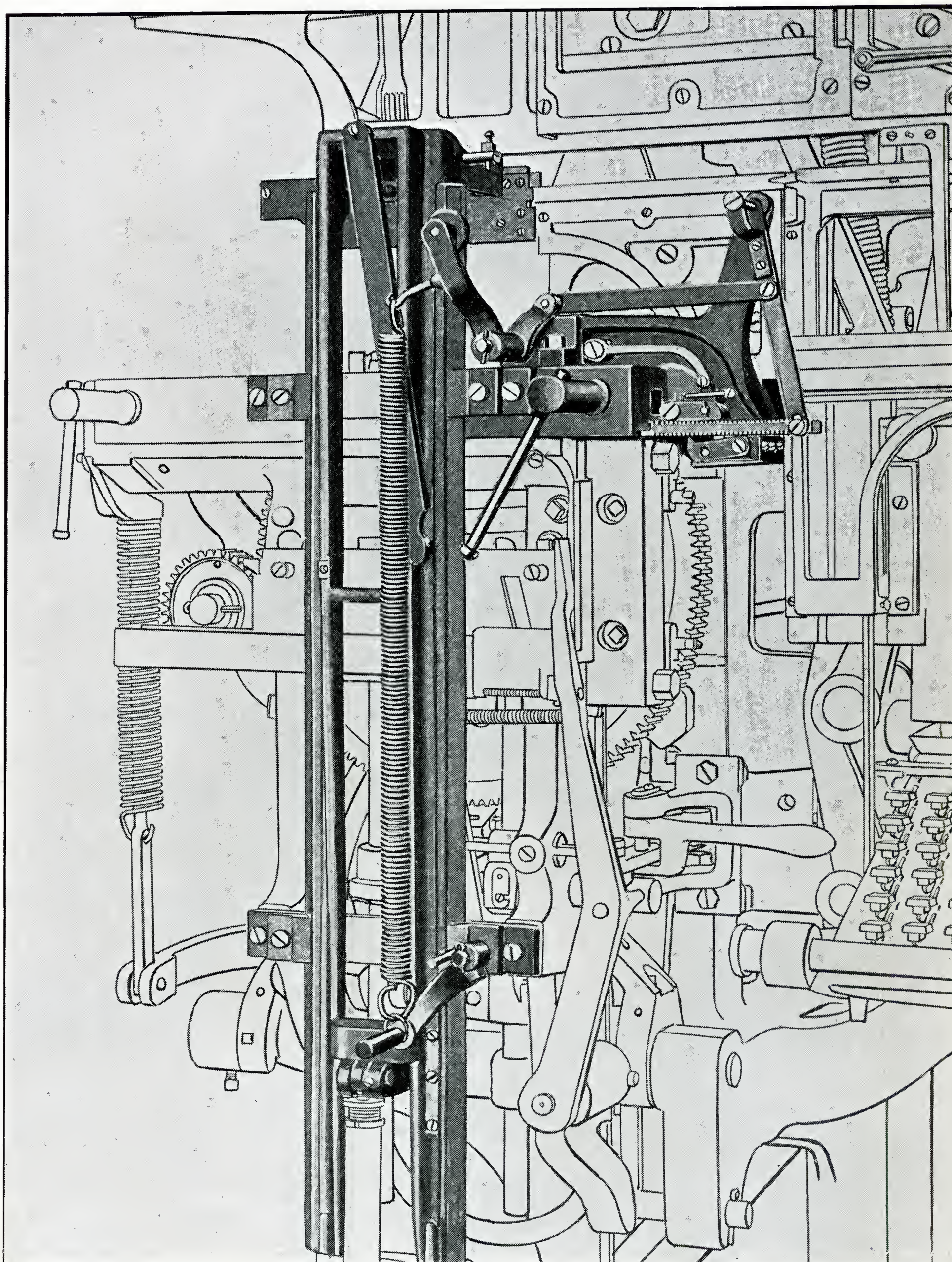
The large attachment, shown on page 104, just duplicates the number of matrices now handled in the machine, as its magazine, being the same as the standard one, will hold *90 additional characters*. It is operated by a keyboard, placed alongside of the regular one, and its matrices when released are carried over and down to the assembler by means of an endless belt connecting the outlets of the two magazines.

It may contain matrices of one or more fonts, just as the case calls for; for instance, a complete set of *bold face matrices for setting up headings or side headings* in newspapers, as well as for inserting the *black figures and letters in advertisements*; or, when to be used in book offices, it may carry lower and upper case of one font (italics, etc.), and small caps or the lower case of another. During busy hours it will also *assist or substitute* to a certain degree the so-called *head letter machine*.

Matrices running through this machine are provided with 8 distributing teeth in order that the large number of additional matrices (to which if required may be added 60 more), may be automatically distributed; thus their use will be limited to this special machine; a fact of no moment, however, in newspaper offices where the matrices are carried in magazines which are always inserted into those machines only to which they belong. Should one of these matrices by accident get run into another machine, it would drop into the quad box, doing no harm whatever.

In book offices having but few machines it would, of course, be an easy matter to use the 8 tooth matrix on all machines, as the regular matrix can easily be converted into one with 8 teeth. New offices ordering machines may get them already properly equipped so that in case of its being desirable to install the large attachment, no extra expense may be involved. The magazine may be operated by a direct-acting keyboard as shown in cut, or preferably by a standard keyboard, same as used on the regular machine.

Movable Right-hand Jaw.



Movable Right-hand Jaw Attachment.

(Patent applied for.)

This attachment converts the right-hand or stationary vise jaw of the linotype machine into an automatic movable one, which, when a short line enters the jaws, is moved over so as to make up for the shortage at the right-hand end of the line.

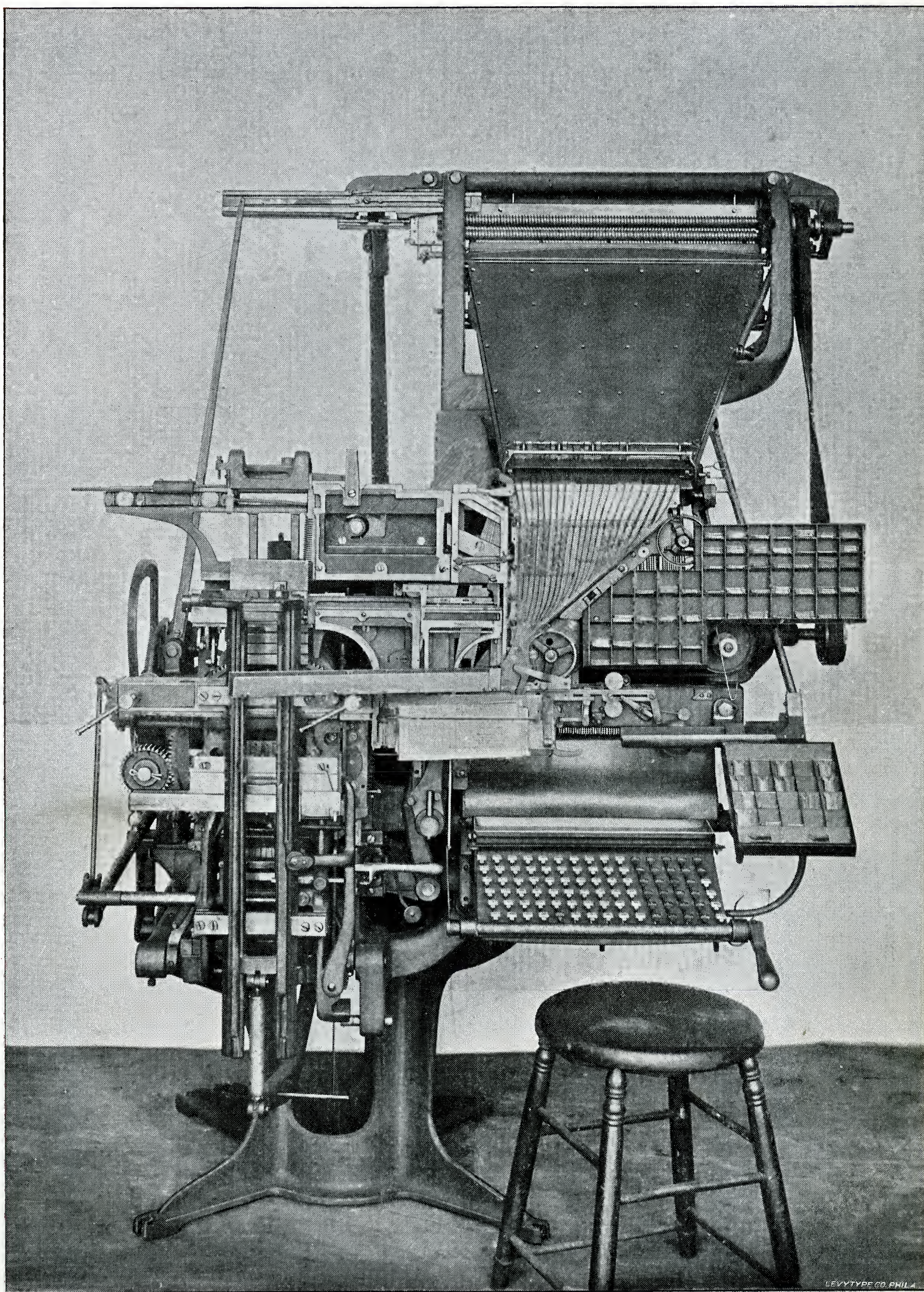
The object is to dispense with the use of quads and spaces at the ends of lines varying in length, such as lists of names, tables, etc., thereby effecting a great saving of time usually consumed by operators in filling out such lines by hand. In other words the operator is to set up the name only, and then sends the line over, paying no further attention to it, as the attachment completes the line.

Any shortage in line to the extent of $2\frac{3}{8}$ inches is automatically taken up by the attachment, which, when not in use, does not interfere with the regular work on the machine, while by simply turning a handle it can be set into operation in an instant whenever short lines appear. During the justifying operation of the line the movable jaw is held in a firm position, thus insuring a tight justification as well as small spacing.

The attachment is simple in construction, consisting of but few parts, and is easily applied to any machine using the wedge spaceband.

Price, complete\$30.00

Matrix Run-out Channel and Sort Box.



Face Plate Sort Box.

It is often desirable to have in convenient reach a second sort box in addition to the one already on the machine, so as to handle extra pi matrices. To meet this requirement we have designed an upright sort box to be placed in front of the machine as shown in the cut on page 108.

Price of box, including clamp, etc.....\$4.00

Assembling Pi Box.

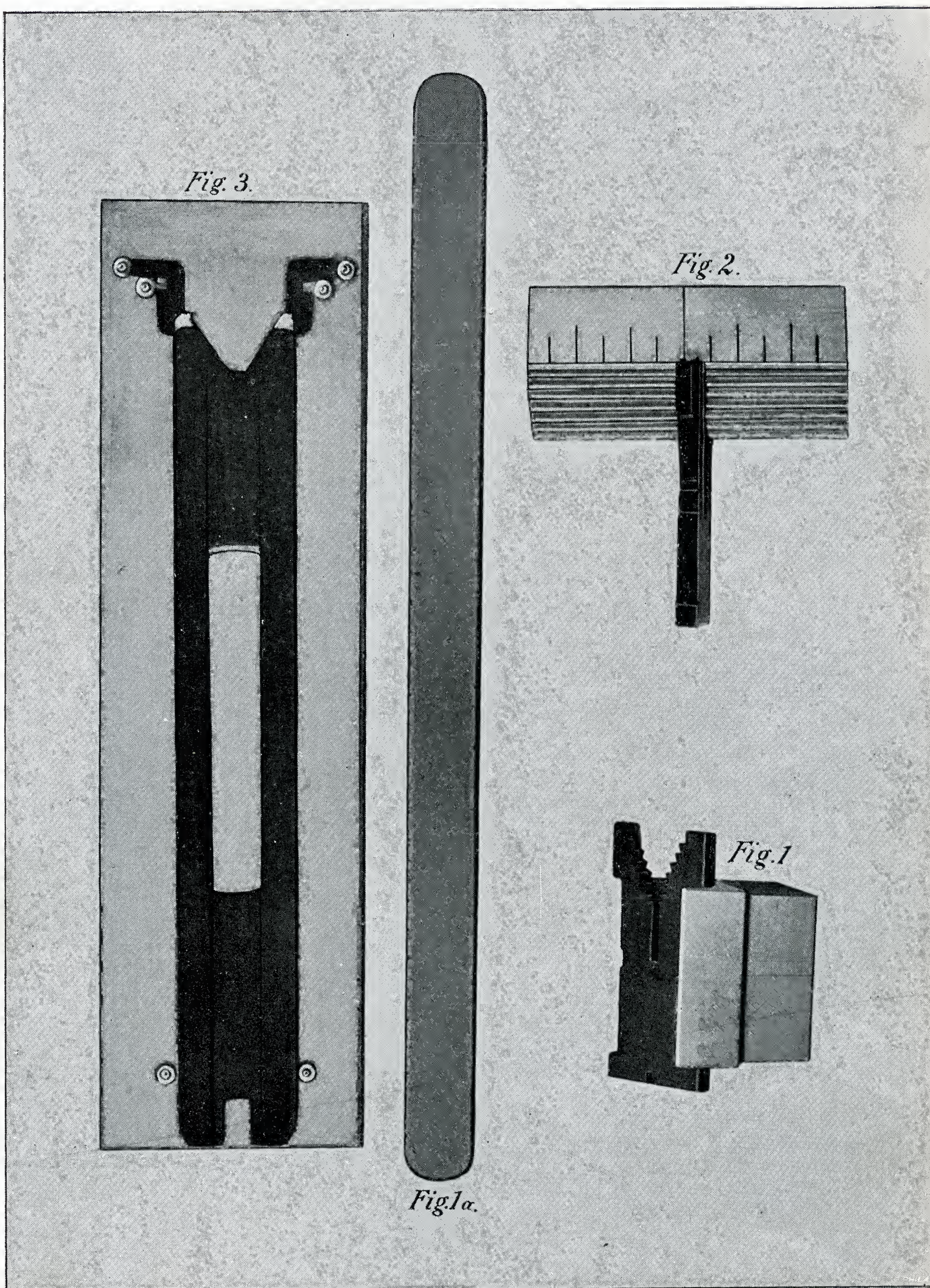
On the same machine we illustrate a pi box, or rather channel, into which all the pi matrices are assembled in a line by means of a regular assembler star. The channel is in an inclined position, thereby presenting the reading marks of the matrices in plain view of the operator, who thus can quickly pick out what he wants.

Price\$6.00

Note.—This picture shows also the run-out channel for matrices when placed on the machine, detailed illustrations of which are given on page 112. As will be seen a long channel is attached directly to the outlet of the assembler, which receives the matrices in the same manner as does the elevator, the latter being kept in its upper position during the operation.

Needless to say that much time and annoyance is saved by the use of this channel whenever a magazine is to be emptied.

Space Band and Matrix Gauges.



Matrix Body Gauge.

The gauge shown in Fig. 1 is made of hardened tool steel, ground to exact dimensions between the ears and across the side of matrix. Any matrix of correct shape and size should fit on the gauge neatly at these points. The accompanying wedge, inserted behind the matrix and slightly pushed forward, serves to take it out of the gauge. If the matrix does not fit properly the cause should be located, the defect removed, and the matrix again tested.

Price, including wedge\$1.75

Matrix Tooth Gauge.

The gauge shown in Fig. 2, on the opposite page, is for the purpose of testing whether or not the distance between the distributing teeth of the matrix is correct, and at the same time indicating how much they are out of true, if at all. The tapered gauge is provided with a scale on its face, and a correct matrix inserted thereon should fit tightly when it reaches the center of the bar. If the matrix fits in other positions it shows a deviation from the standard dimensions. Each graduation represents the one-thousandth (.001) part of an inch and should be counted from the center line of the bar.

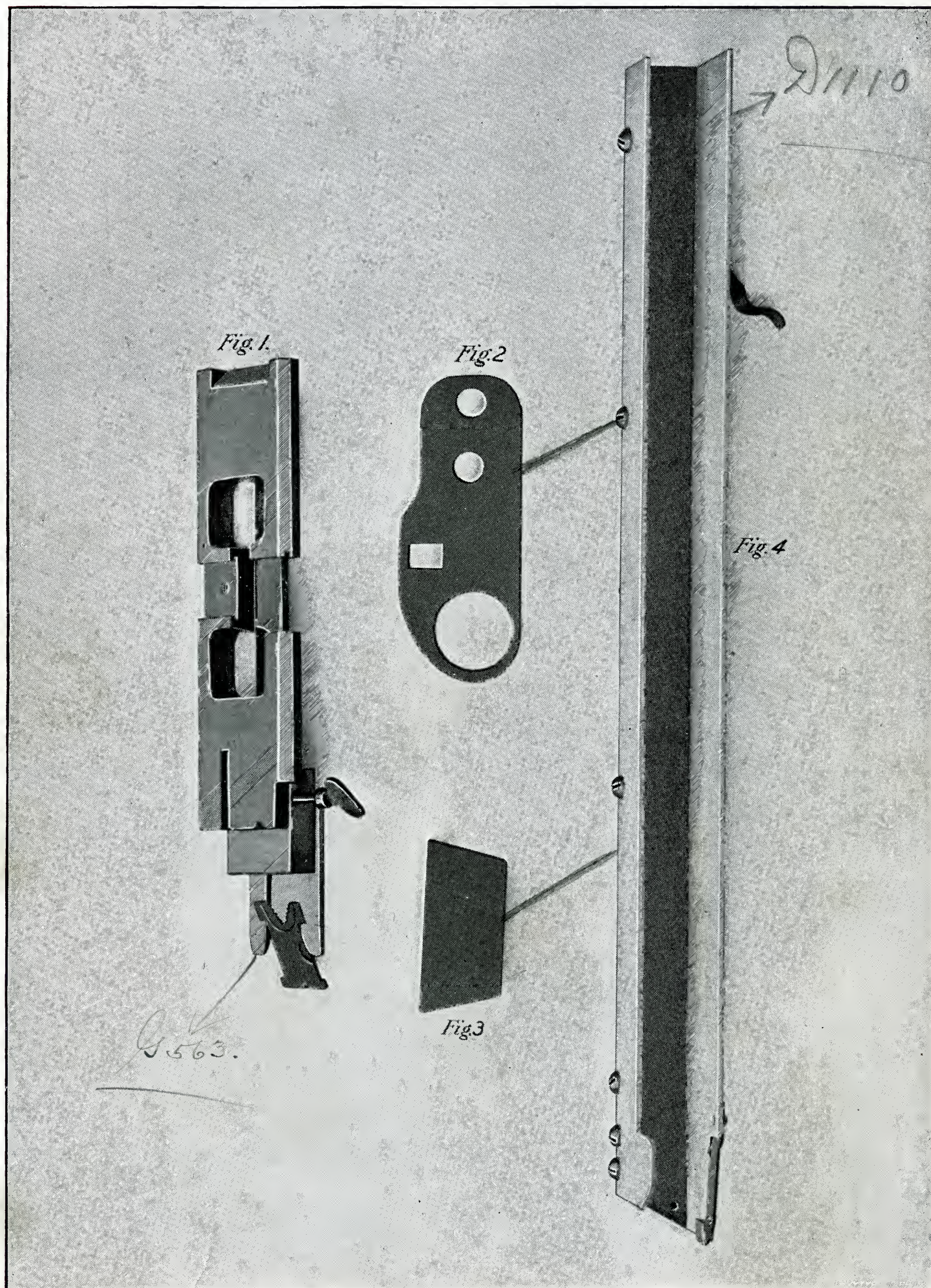
Price\$1.50

Spaceband Gauge.

The object of this gauge, shown in Fig. 3, is to test the important dimensions of the spaceband. It consists of a steel plate with inserted hardened steel pins; if a spaceband is correct, its head will fit exactly into the gauge, and the lower end will be even with the bottom of the steel plate.

Price\$1.00

Matrix Guide for Second Elevator and Run-out Channel.



Matrix Guide for Second Elevator.

Fig. 1 on the opposite page represents a tool composed of a clamp with two guide rails, which is to be attached to the end of the second elevator bar for the purpose of quickly and easily shifting on matrices to this bar. The projecting guide rails engaging the ears of the matrices, guide and align them, so that their teeth will be in line with those of the bar before they enter same.

Without this tool it requires some skill and experience on the part of the operator to quickly run in matrices, but with its use the average boy can do as well.

Price\$2.00

Matrix Run-out Channel or Stick.

The channel illustrated in detail in Figs. 2, 3 and 4 on page 112, and shown attached to the machine on page 108, covers a long-felt want in offices where circumstances require a repeated changing of matrices not contained in a so-called duplex magazine, and which, therefore, have to be run out by hand. By the old method the matrices must be assembled in the elevator in lines of suitable length and then be removed with the fingers—a rather slow and troublesome operation. To simplify matters and to reduce the valuable time required in running out matrices we contrive to let the assembler star feed the matrices directly into a channel about 20 inches in length, which, when filled up, is removed and the matrices stripped out directly into the matrix tray. During these operations the elevator is kept out of the way in its upper position, as shown on page 108.

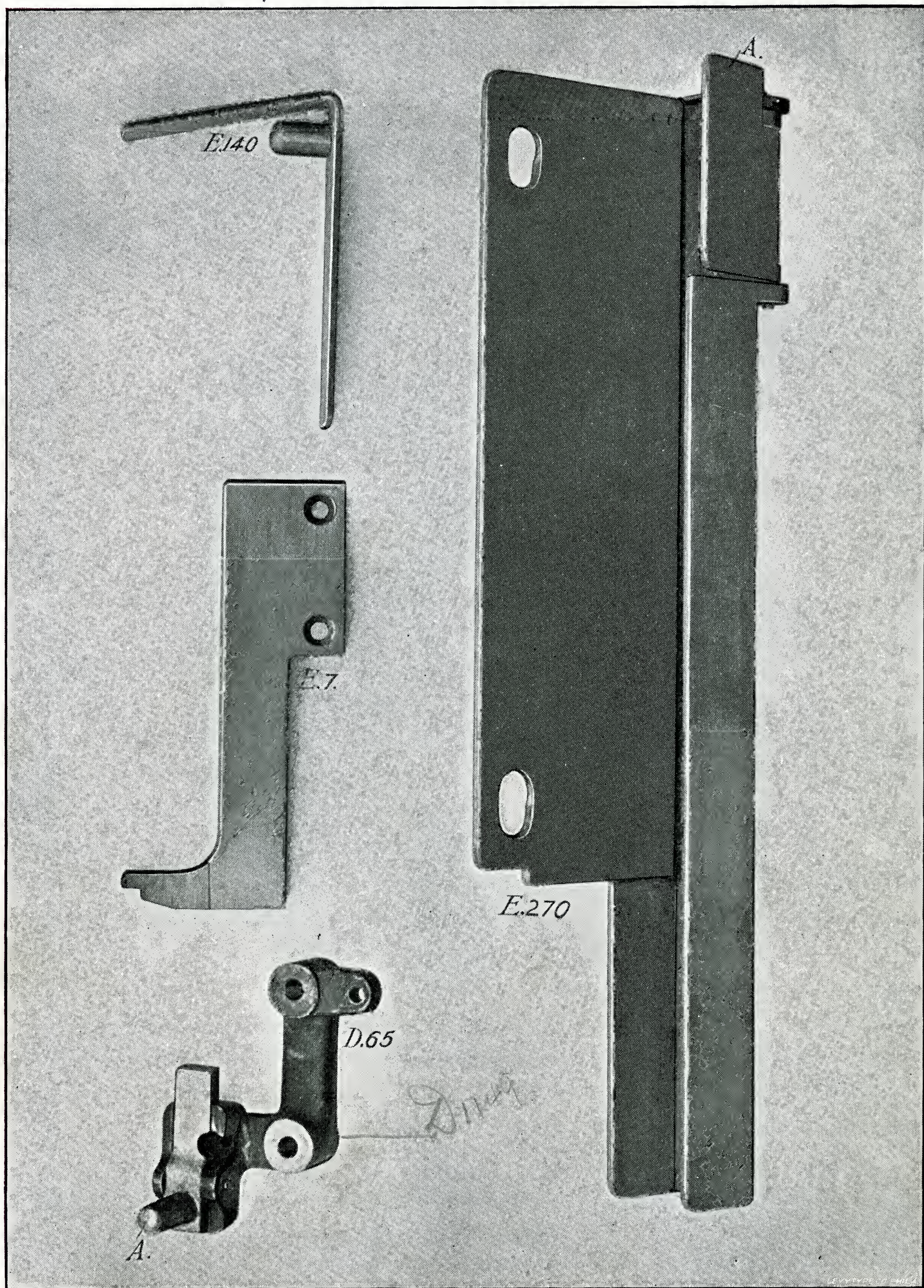
It will be seen that on account of the length of the channel, one emptying of same will be equal to four or five of the old method, besides obviating the risk of scattering the matrices on the floor during transportation—a thing that occasionally happens in carrying a long line of matrices between the fingers.

The channel rests upon the assembler slide and vise screw, and is kept thereon in a rigid and firm position by means of a flat spring engaging the square hole in the stationary holder plate, shown in Fig. 2, which is slipped over the vise screw and fastened by the elevator gib screw.

Price of channel, including block\$3.00

Price of plates, each 0.15

Improved Chase Box, Vise Jaw and Assembler Slide Stop.



Improved Chase Box.

Being provided with a hinged gate, kept in place by a spiral spring, this chase box, as illustrated under E 270 on the opposite page, has many advantages over the old style, which has a flat slug spring subject to wear and bending. The gate A is made high enough to prevent slugs from toppling over when ejected and, being over two inches wide, also allows a number of slugs to be quickly and conveniently inserted or removed. Many hundreds of these are in use.

Price\$7.50

Improved Left-hand Vise Jaw.

This jaw is considerably cut out at the bottom, as will be seen from the illustration on page 114, so as to allow the justifying block to come up close to the matrices no matter how the jaw may stand, thus always utilizing the expanding capacity of the spacebands to their fullest extent, and reducing hand-spacing on short or half-measure lines.

The jaw has the further advantage, especially for book and job offices, that by its use no change of the justifying block is required for any line between 0 and 17 ems.

We use this style with success on the so-called step-justification machines invented by us, and it works as well on wedge-spaceband machines.

Price\$3.50

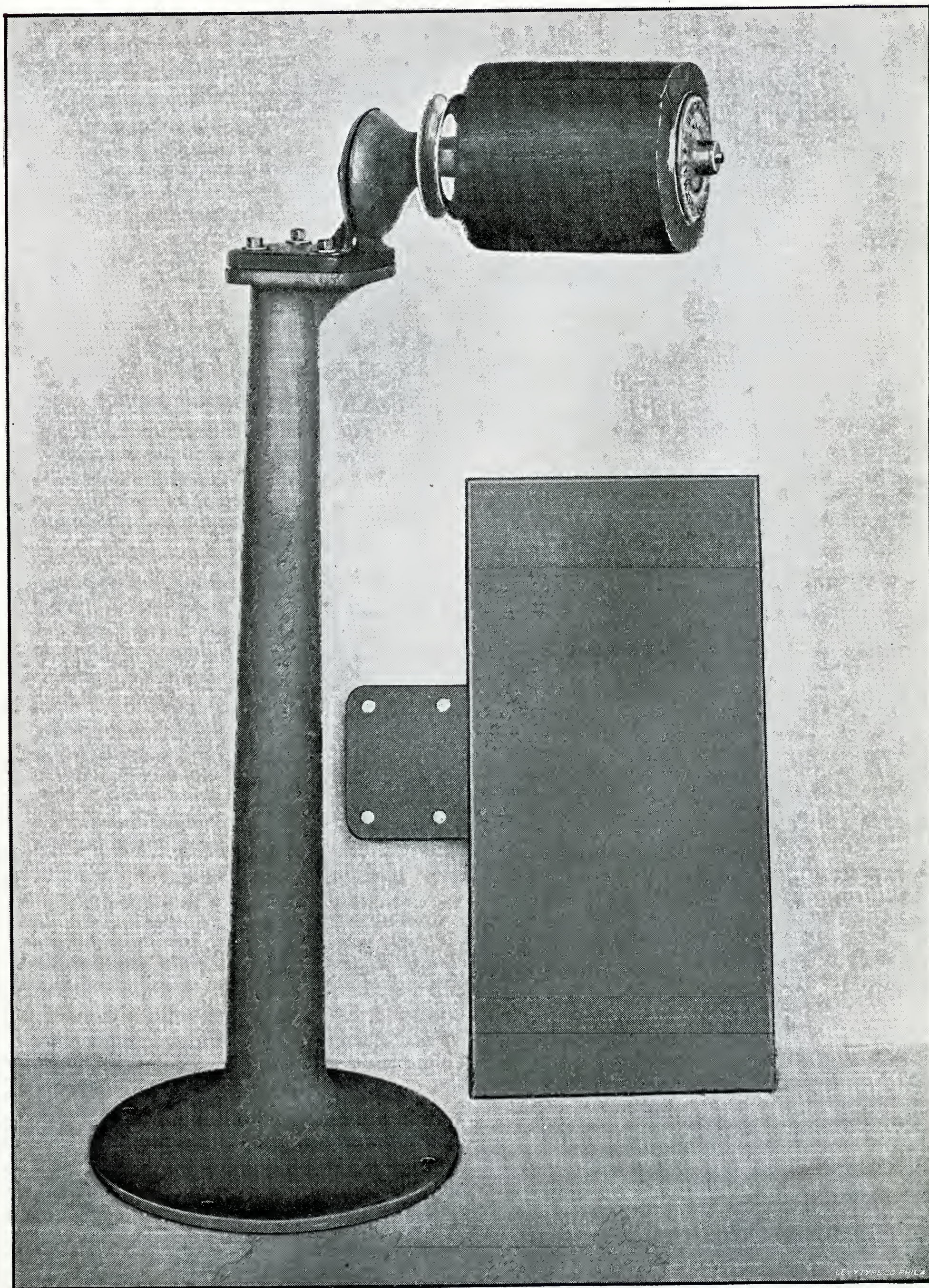
Improved Assembler Slide Stop.

The object of this improved stop for the bell ringing slide, shown under D 65 on page 114, is to do away with the inconveniences that occur in case a line is over-filled and the assembler gets stuck. Without this attachment, when such a thing happens, in order to remove matrices the intermediate clutch has to be stopped, the assembler belt drawn backward so as to loosen the matrices, and then the surplus matrices having been removed the assembler must be started again by engaging the clutch.

With our improved stop all three operations are avoided by simply pressing the projecting handle "A" whenever there is a crowded line. The result is that the bell ringing slide will pass by the stop, thus freeing assembler and matrices, the surplus of which can then be taken out. Over 500 are in daily use.

Price\$0.75

Linotype Rotary Brush.



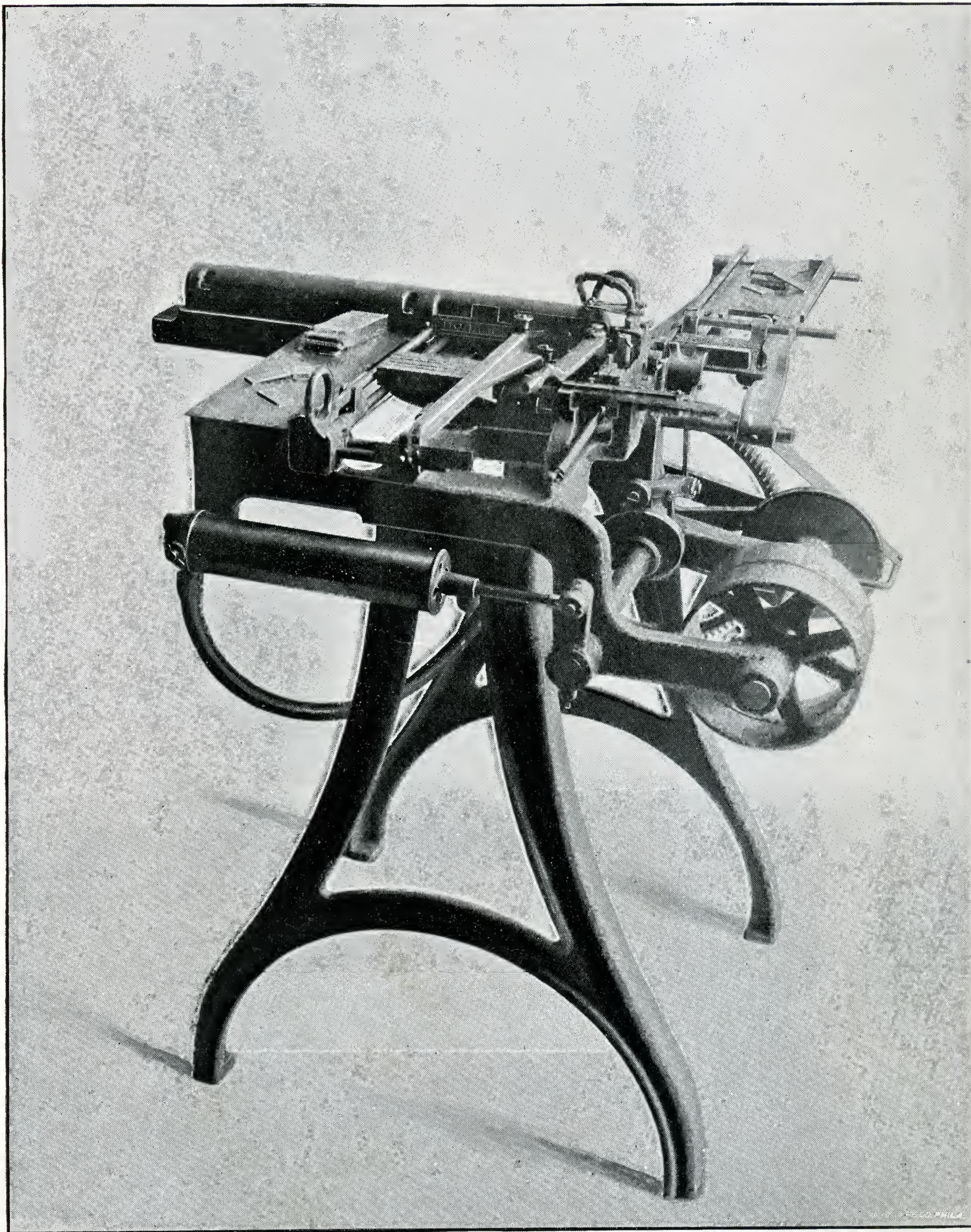
Linotype Rotary Brush.

The rotary brush, illustrated on the opposite page, is for the purpose of removing in a quick and satisfactory manner all burrs and shavings that may adhere to linotype slugs on coming from the machine, and this is accomplished by simply holding the galley containing the slugs against the revolving brush.

The brush is mounted on a round column of cast iron, and when required will be fitted up with a table upon which to place and slide the galley along the brush. The brush is 8 inches long by 7 inches diameter and has a grooved pulley $4\frac{1}{2}$ inches in diameter for $\frac{1}{2}$ inch round belt, and should run about 600 revolutions per minute. It is also furnished without column to clamp upon a table or bench.

Rotary brush, including column and table.....	\$22.00
Rotary brush, with column only	20.00
Rotary brush, without column and table	15.00
Rotary brush, unmounted	8.00

Slug Planer.



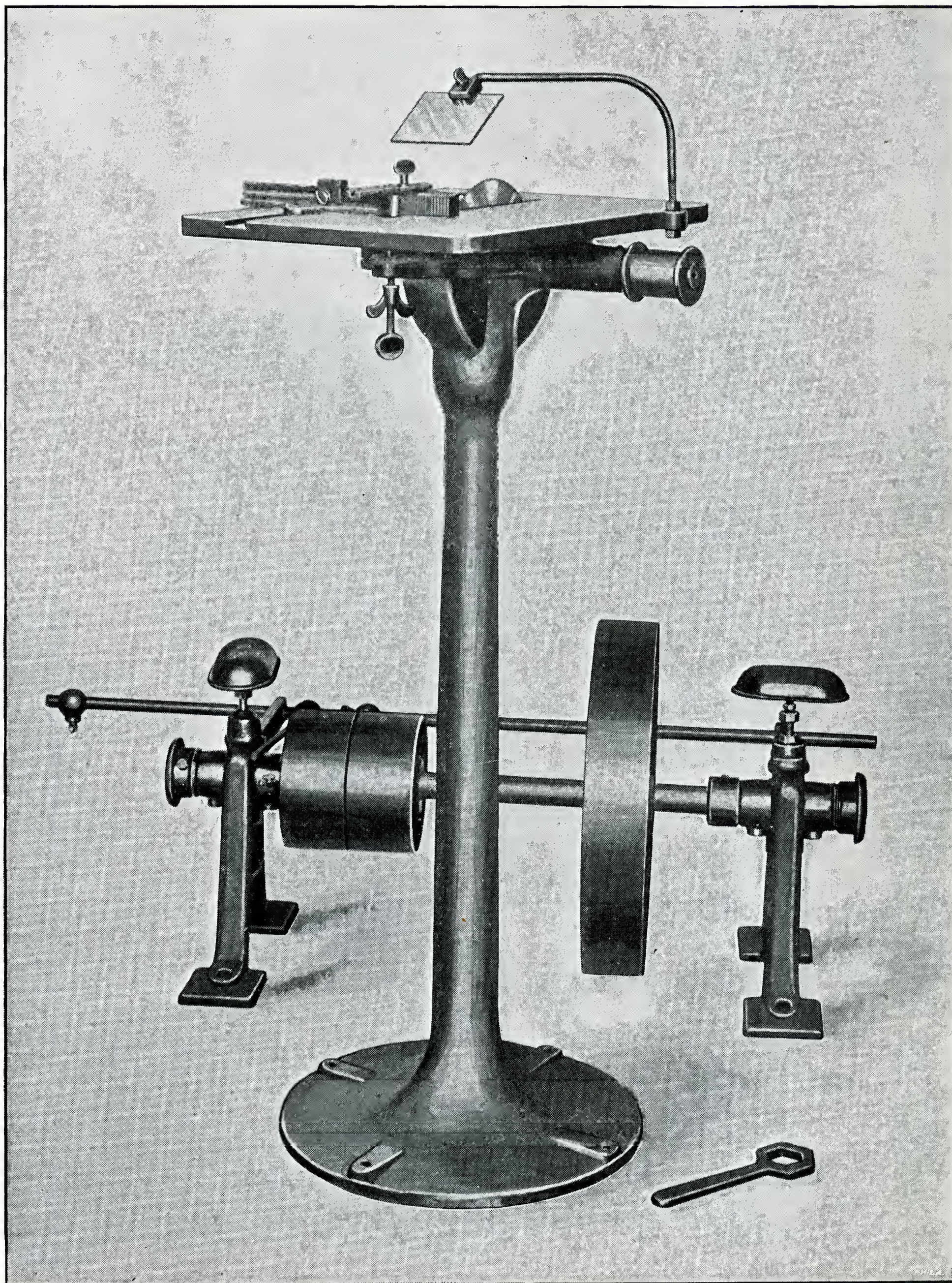
Slug Planer.

When we considered the practical difficulties encountered in keeping the trimming knives of a number of machines so adjusted as to trim a slug absolutely without taper and of a fixed size, as required in book and job offices, we concluded that the easiest way to accomplish this object and fill the requirements of good book printing would be to make a special machine, which would feed the slugs automatically "lengthwise" through a pair of knives, the only natural way to obtain a perfectly straight and parallel slug.

This machine, shown in the half tone, may be quickly adjusted to trim any line up to five inches in length, and of any thickness used in printing offices, the change from one length or thickness to another consuming less than a half minute. It runs at a speed sufficient to trim the product of eight or ten linotypes. In view of these facts and that the machine requires very little attention, and that it is easier to run the slugs through it than to try to keep the trimming knives on the linos always perfectly adjusted; it will be seen that the machine is very valuable and will pay for itself in a short time. The machine can also be used to remove the burrs on cut-off or half slugs. Its driving pulley is 8 inches in diameter and should make about 250 revolutions. Floor space 3 x 4½ feet.

Price, net f. o. b. Baltimore\$125.00

Linotype Saw Table.

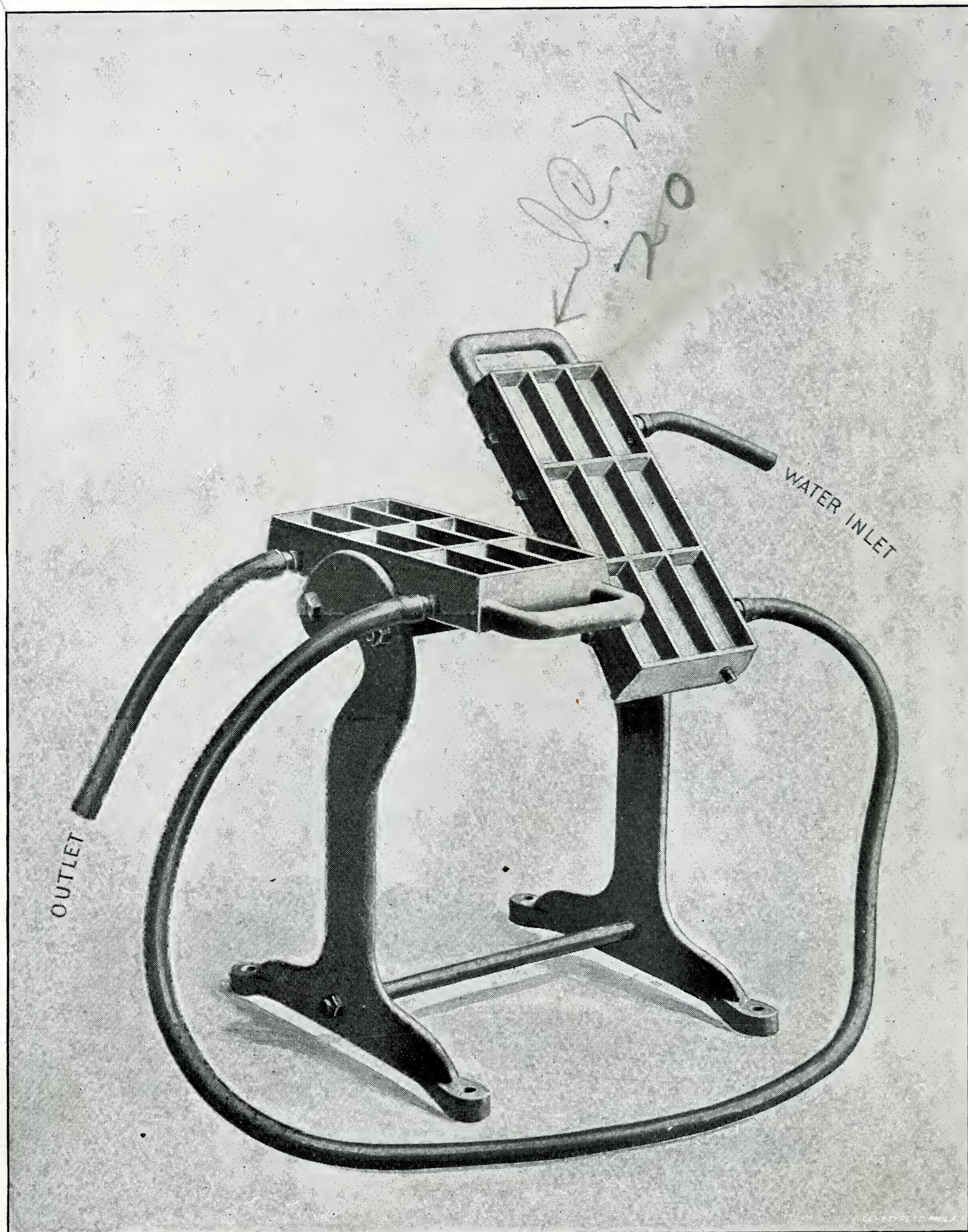


Linotype Saw Table.

This machine is for sawing off Linotype slugs for the purpose of inserting cuts, etc., into printed matter, or for making half lines, and can also be used for cutting plates and other small work. It has a table, adjustable in height, 19 inches long and 14 inches wide, upon which are two gauges, one attached to the other, the first at right angles to the saw and sliding in a groove lengthwise of the table, the other parallel to the saw and adjustable to any distance within $6\frac{1}{2}$ inches from the saw. To the right angle gauge there is attached an adjustable clamp which sets close to the jaw, holding the lines of type firmly to prevent them from rising while being sawed. A glass shield keeps the flying chips from injuring the face of the operator. By raising or lowering the table the depth of the cut can be varied. The floor space occupied is 17 x 19 in., and the height of the table is 40 inches. A counter shaft is supplied with the machine.

Price, with counter shaft\$60.00

Recasting Mold for Linotype Metal.



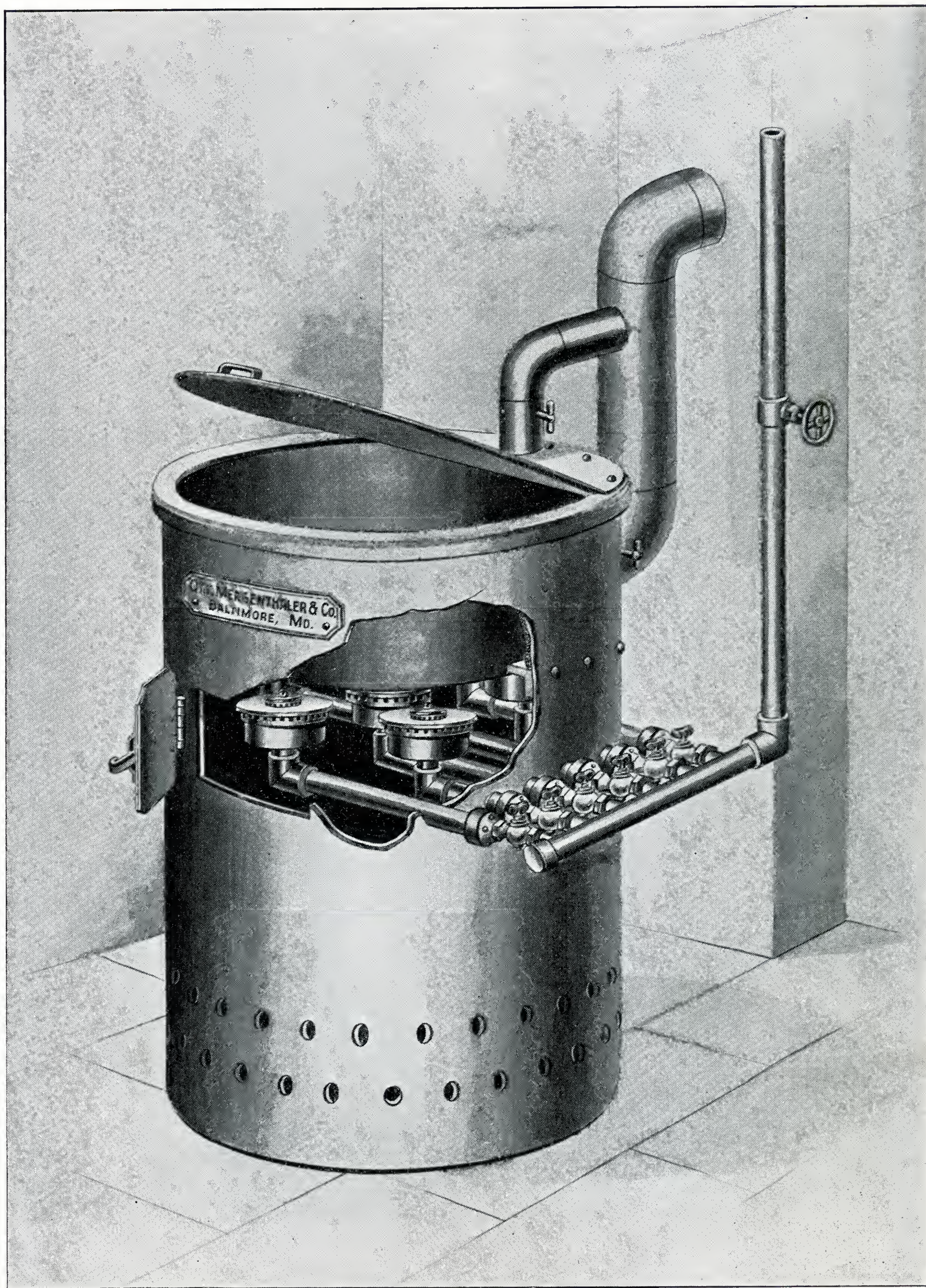
Recasting Mold for Linotype Metal.

This machine consists of two hollow swinging pans through which a constant supply of water circulates while the molten metal is poured into the pans, thereby securing a rapid cooling off of the pigs, which afterwards are easily dropped out of the pans by the latter being simply turned on their fulcrum shafts. Over one thousand (1000) pigs can be cast per hour, which is evidence that it will pay for itself in a short time. If required the machine will be mounted on casters. The water hose may be connected to the nipples on the pans in a manner similar to that shown in cut.

The machine weighs about 175 lbs., is 26 in. wide, and requires a floor space of about 2 x 3 feet. The pigs are $5\frac{1}{2}$ in. wide, and can be cast in any thickness from $\frac{1}{4}$ up to 1 in.

Price without hose, f. o. b. Baltimore....\$25.00

Gas Furnace to Melt Linotype Metal.



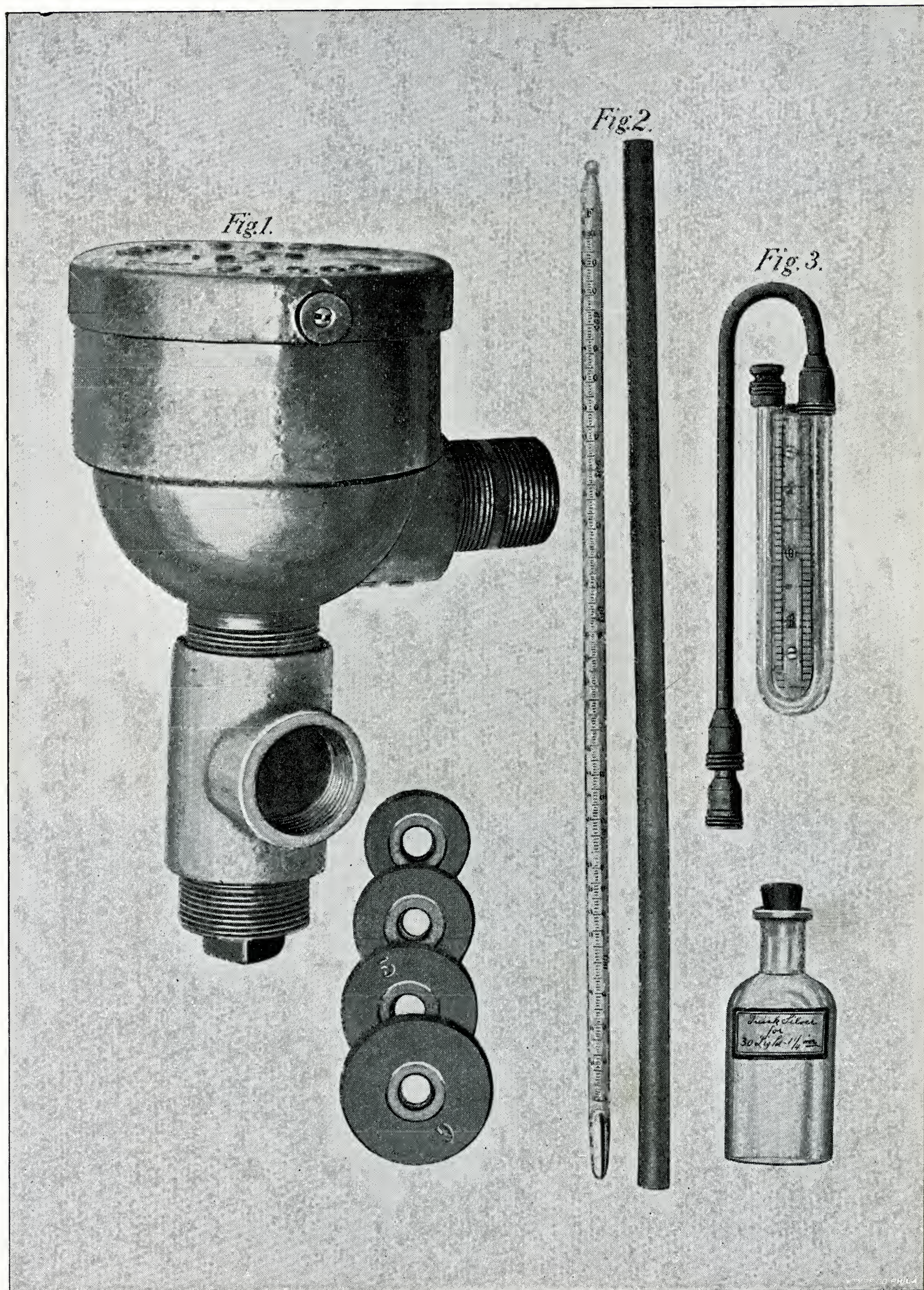
Gas Furnaces.

This metal pot is especially designed for melting linotype slugs so that they may be recast into bricks suitable for feeding the linotype pots. The body is made of thick boiler iron lined with asbestos, and its interior is so constructed that the heat must circulate around the pot before going up the flue. The burners are piped independently of each other, so that all but one or two can be shut off, in order that the metal after having been melted may be kept at the proper temperature.

We have them in four sizes:

No. 1, 300 lb. capacity	\$ 50.00
No. 2, 750 lb. capacity	60.00
No. 3, 1000 lb. capacity	75.00
No. 4, 1500 lb. capacity.....	100.00

Gas Pressure Governor, Gauge and Thermometer.



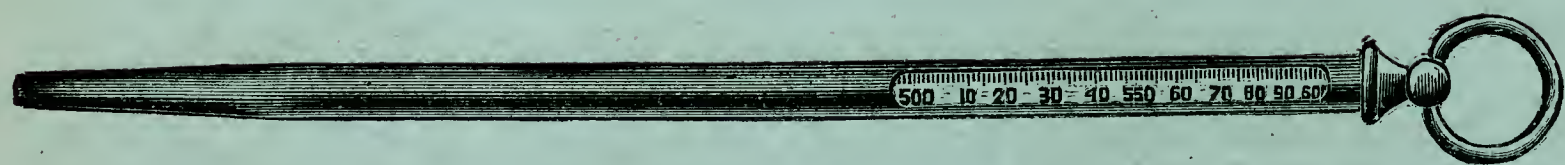


Fig.
4.

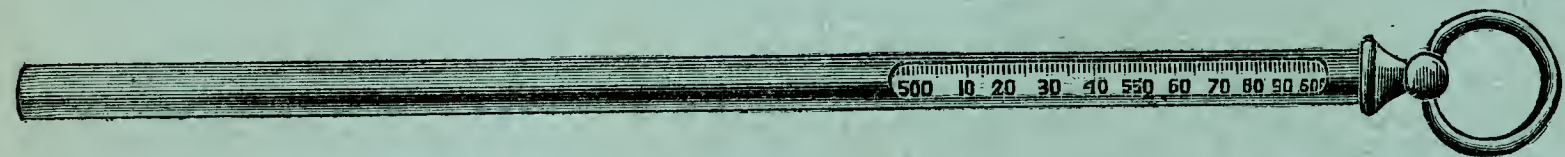


Fig.
5.

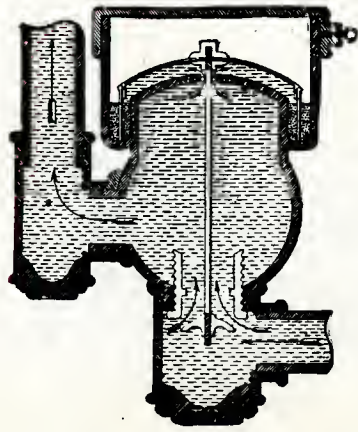
We also handle Thermometers, encased in steel tubings, which are especially made up for use on Linotype machines. In one of them Fig. 4 the bulb chamber contains a special filling to quickly conduct the heat from the tube to the bulb, thus making this instrument very sensitive and reliable.

Price of Thermometer, shown in Fig. 4, - \$6.75

“ “ “ “ 5, - \$5.25

These prices are subject to a large discount.

Gas Pressure Governor.



It often occurs that the gas pressure in cities is subject to a very great variation according to time and consumption, causing much trouble on the linotype machine by making it almost impossible to keep the molten linotype metal at an even and proper temperature. To overcome this the only sure way is to insert into the main pipe supplying the linotype plant a gas governor for the purpose of regulating the gas pressure.

We furnish three sizes of the governors, illustrated in Fig. 1, on page 126, including adjusting weights and a bottle of mercury, at the following rates:

$\frac{1}{2}$ in. governor	\$ 5.00
$1\frac{1}{4}$ in. governor	10.00
$1\frac{1}{2}$ in. governor	15.00

Gas Pressure Water Gauge.

This is a very convenient gauge that continuously indicates in inches the gas pressure of the plant to which it is attached. It consists of an "u" shaped glass tube (see Fig. 3), partly filled with water, and is mounted on a nickel-plated brass pipe that fits to any standard gas jet.

No linotype office should be without it.

Price\$2.50

Thermometer.

The thermometer, shown in Fig. 2, has a porcelain scale graduated up to 600 degrees Fahrenheit, and is intended for measuring the temperature of molten linotype metal, whenever there is a call for it.

The average temperature should be about 550 degrees.

Price, including shell.....\$1.75



VARIOUS
Department Views

OF THE WORKS

OF

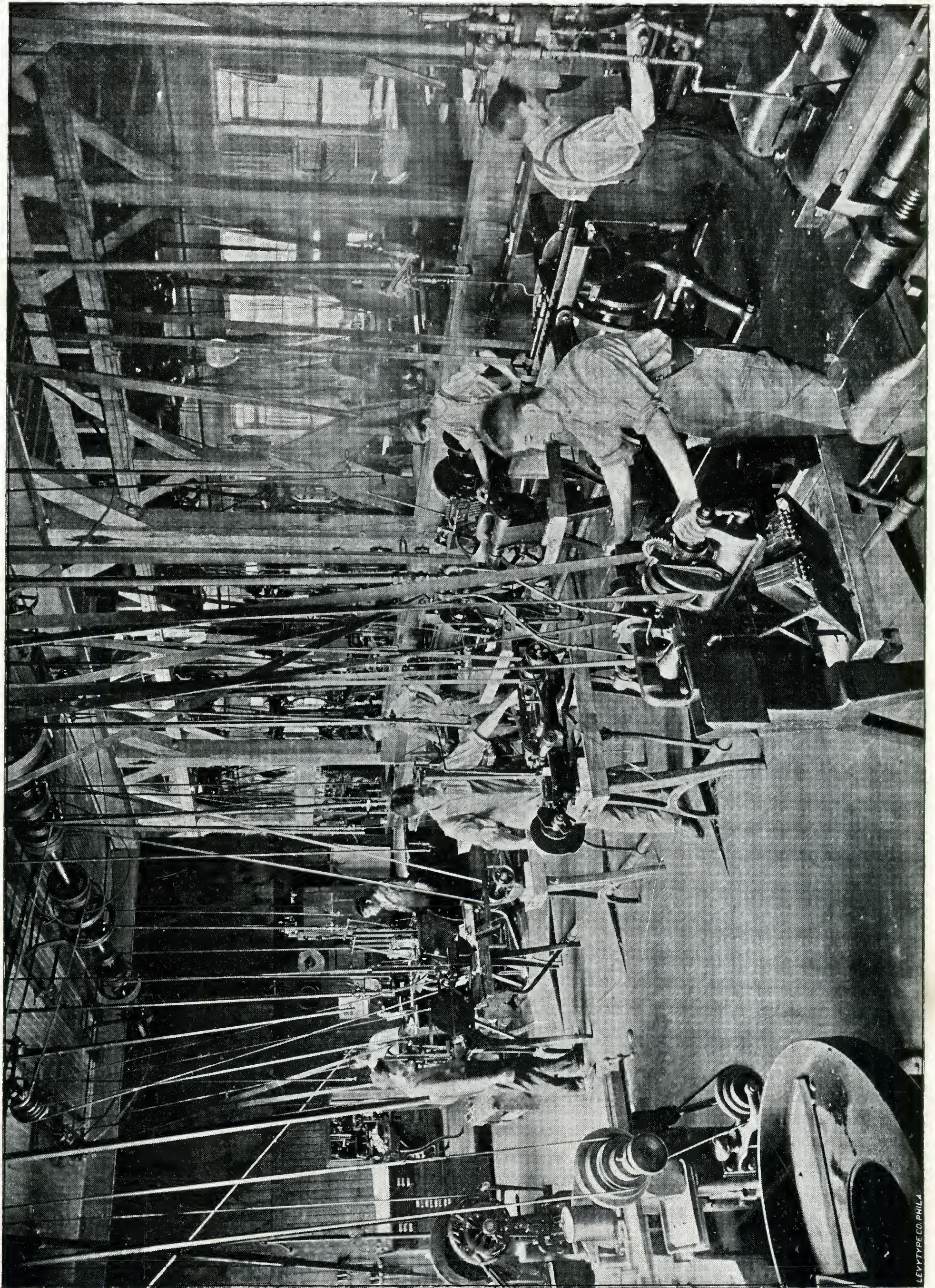
OTT. MERGENTHALER & Co.,

THE BIRTHPLACE

OF THE

LINOTYPE MACHINE,

BALTIMORE, MD.

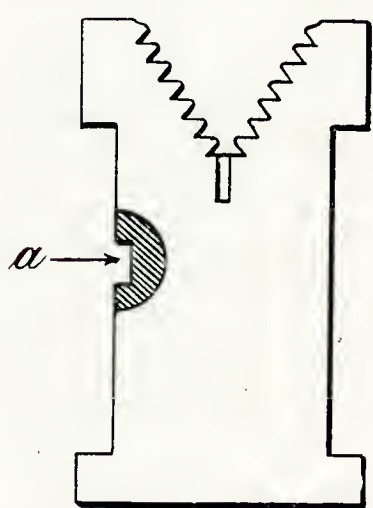


STEEL MATRIX DEPARTMENT.

Steel Matrix Department.



In this department we have been engaged for a number of years in efforts to produce matrices of better wearing qualities than those made of brass, which so far were the only kind used in the Mergenthaler machine.

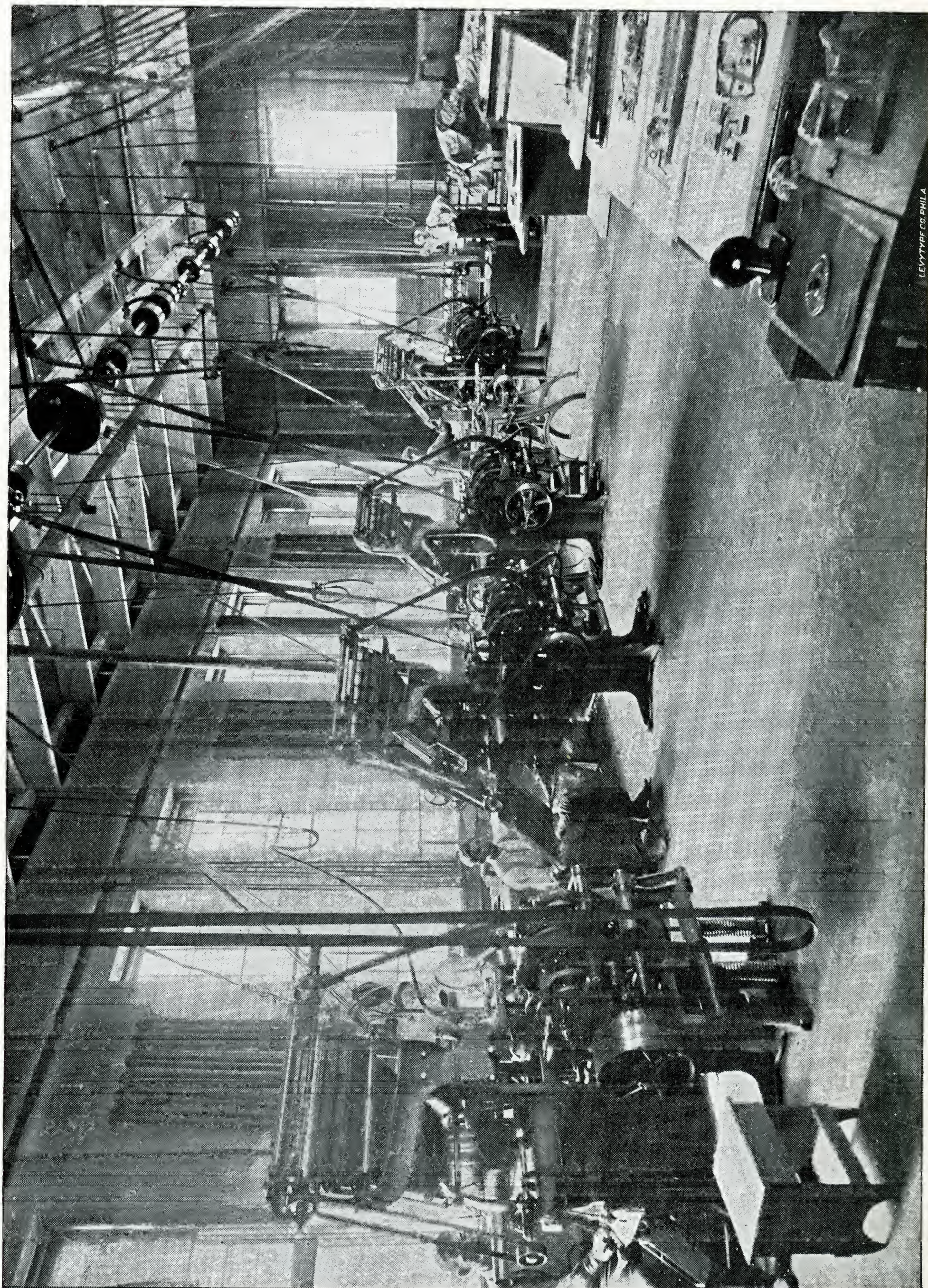


We now have solved the problem by using soft steel and hardening the matrix around the impression point, as indicated in the cut at *a*, which is the most delicate portion of the matrix and contains the fine side walls that encircle the letter.

The brass matrices bend in at this place, resulting in the ill-reputed burrs or hair lines between the letters. The steel matrices largely do away with this nuisance, as they are hardened all around the letter, which greatly increases their strength and durability.

The various special automatic machines and tools of this department have been especially designed and made by us for the accurate and economical production of steel matrices, which renders their manufacture possible at a cost not much in excess of that of brass matrices.

It is a matter of regret that the Mergenthaler Linotype Co. of New York has not yet seen fit to place on the market the steel matrix, which is such a great improvement on the brass one.



EXPERIMENTING ROOM.

Experimenting Room.



In this Room all our

VARIOUS IMPROVEMENTS

on the Linotype machine are experimented upon and tested, before they are placed on the market.

FURTHER IMPROVEMENTS

are being made, to meet the needs and requirements of modern printing offices, which are progressing every day.



WE RECOGNIZE THIS FACT

AND LOOK OUT FOR IT.



DESIGNING AND DRAFTING DEPARTMENT.

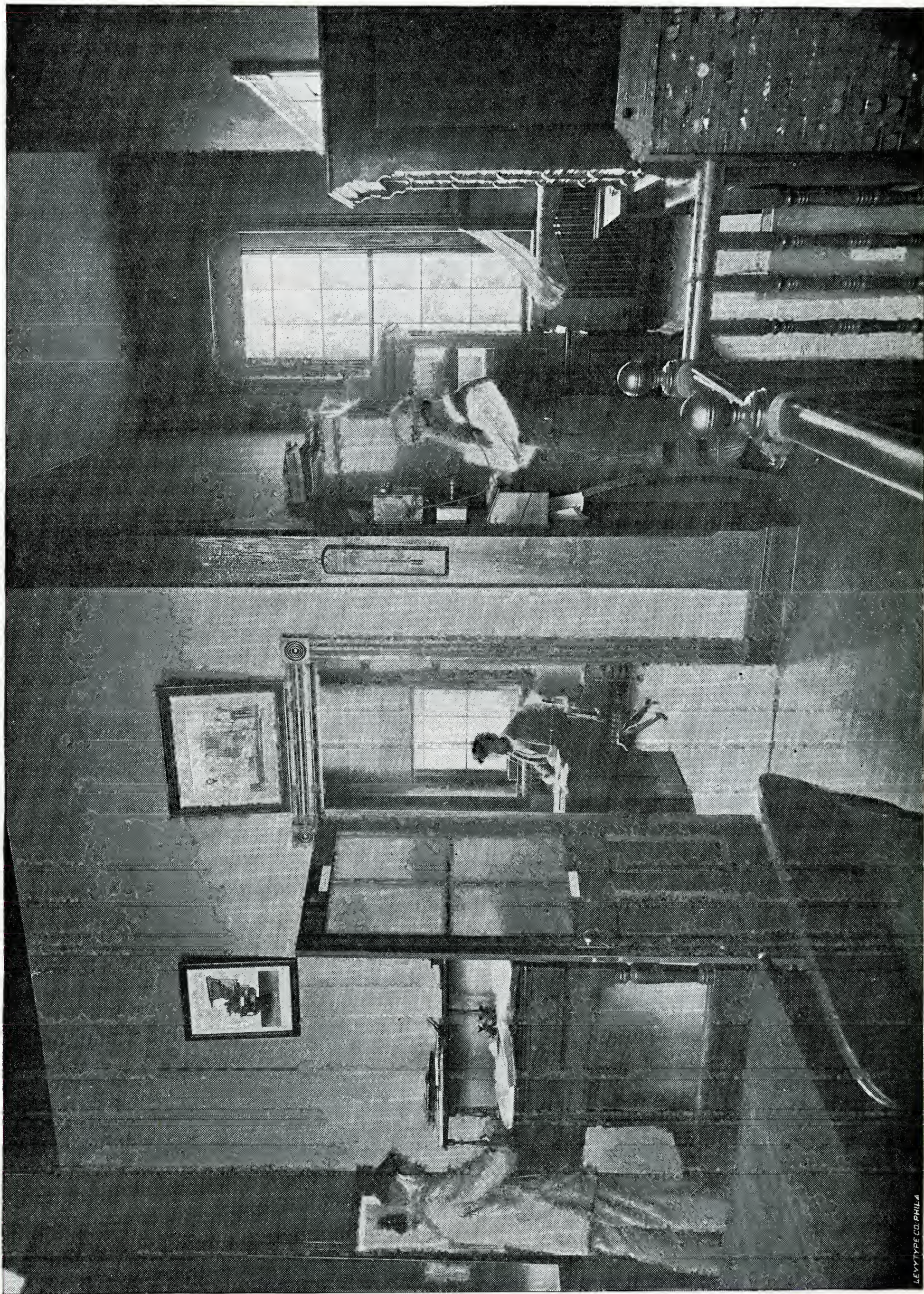
SPECIAL ATTENTION IS CALLED TO OUR 

Designing and Drafting Department,

IN WHICH, IN ADDITION TO THE LINOTYPE WORK,

We Design to Order
All Kinds of Automatic Machinery,
Special Tools, Models, etc.

The fact that WE DESIGNED THE LINOTYPE, one of the most ingenious machines, seems to offer REASONABLE GUARANTEE that the interests of our patrons will be well served by entrusting to us the DESIGNING OF ANY NEW MACHINERY for which they may feel a want in their particular line of business.



PORTION OF THE OFFICE.

We Do Contract Work,

AND OUR LONG EXPERIENCE

WITH THE INTERCHANGEABLE SYSTEM

AND

FIRST-CLASS

FACILITIES

IN OUR WORKS

ENABLE US TO GIVE EXTRA

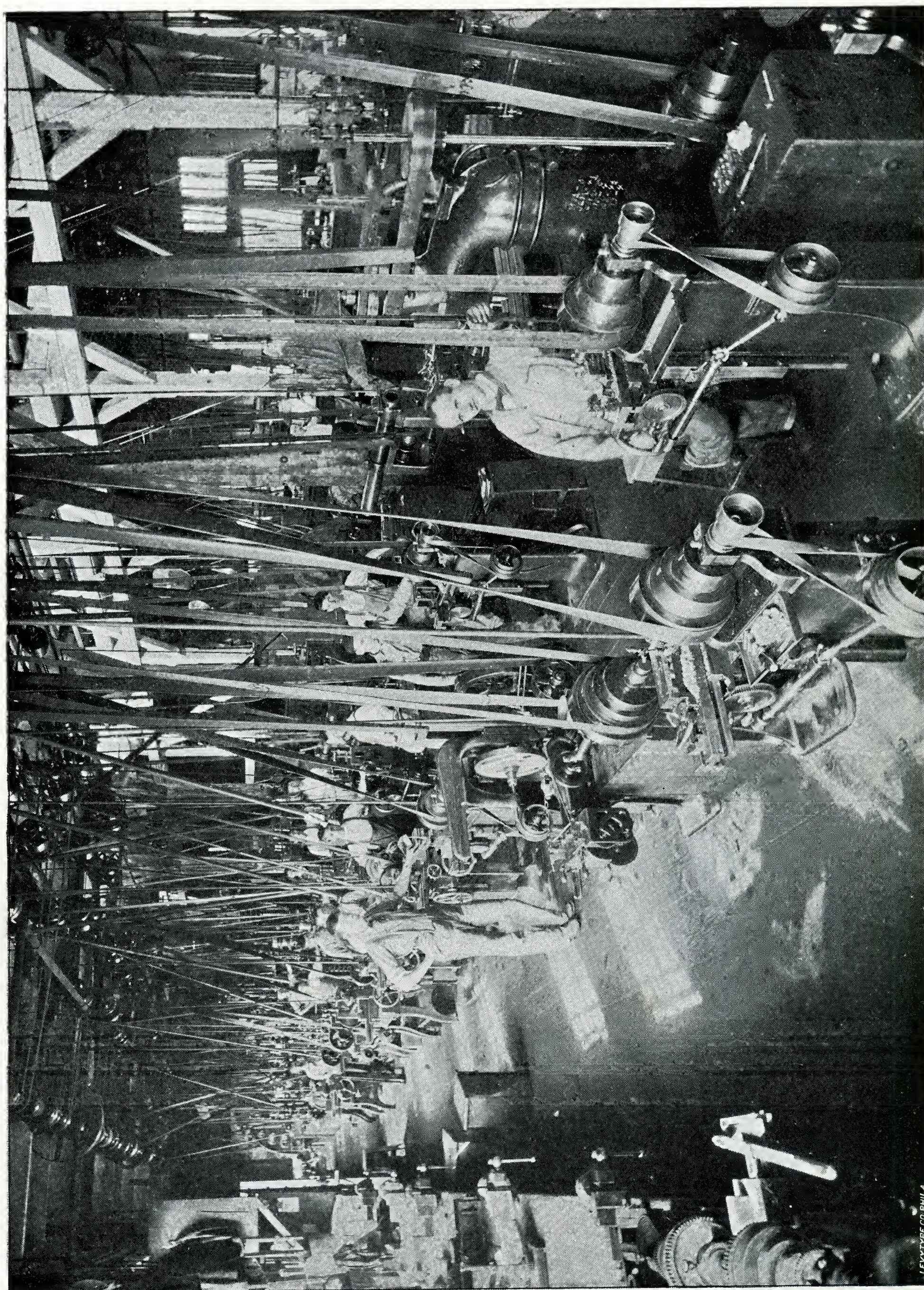
FAVORABLE

QUOTATIONS ON

FINE MACHINERY,

EITHER ELECTRICAL OR MECHANICAL,

**Particularly So When Large Numbers
Are Required.**



MILLING DEPARTMENT.

WE MAKE 

Milling

Machines,

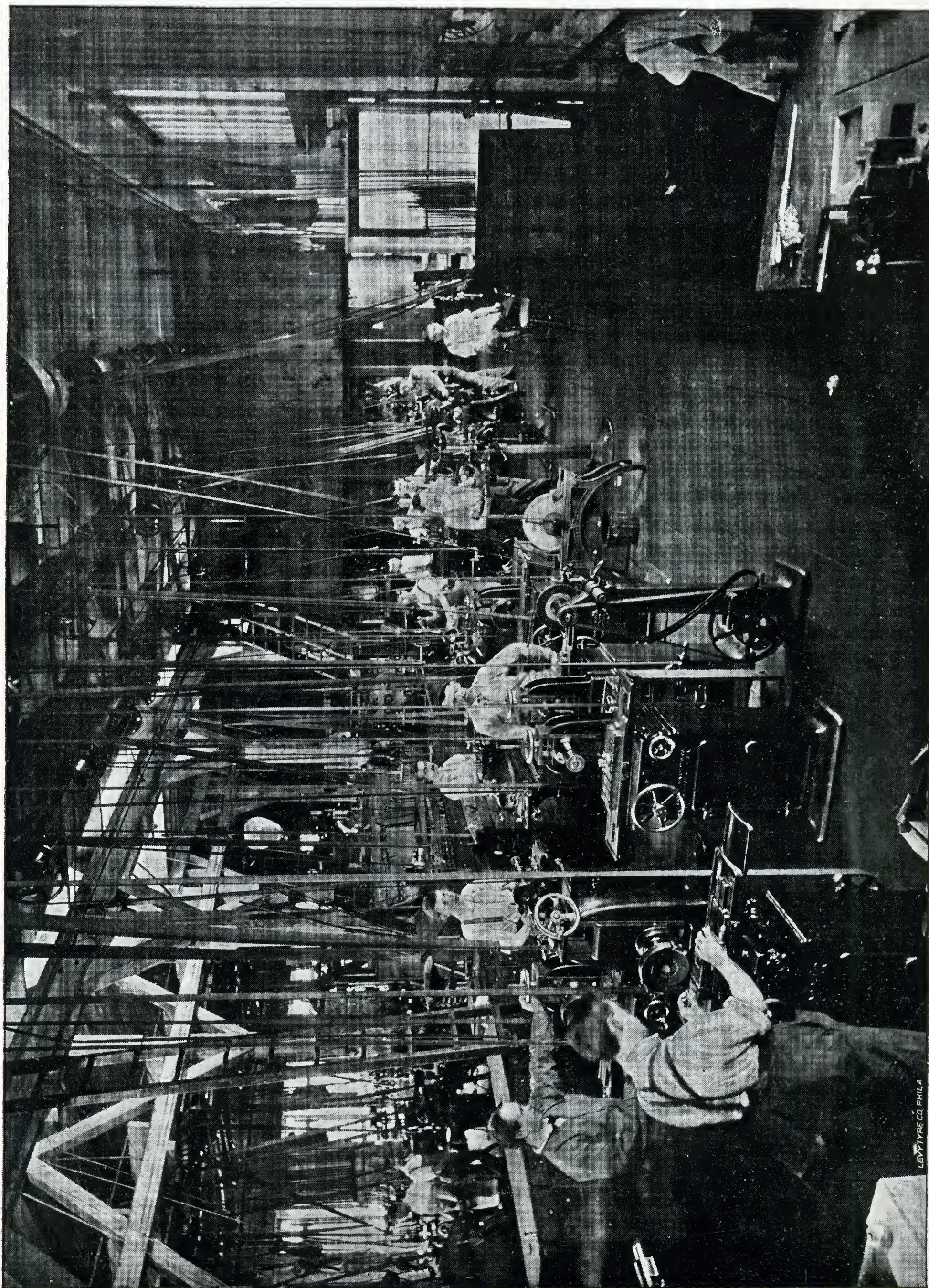
WITH OR WITHOUT

VERTICAL MILLING ATTACHMENT.

CUTTERS,

ARBORS,

MANDRELS, ETC.



TOOL ROOM.

WE MAKE 

Special Tools and Gauges

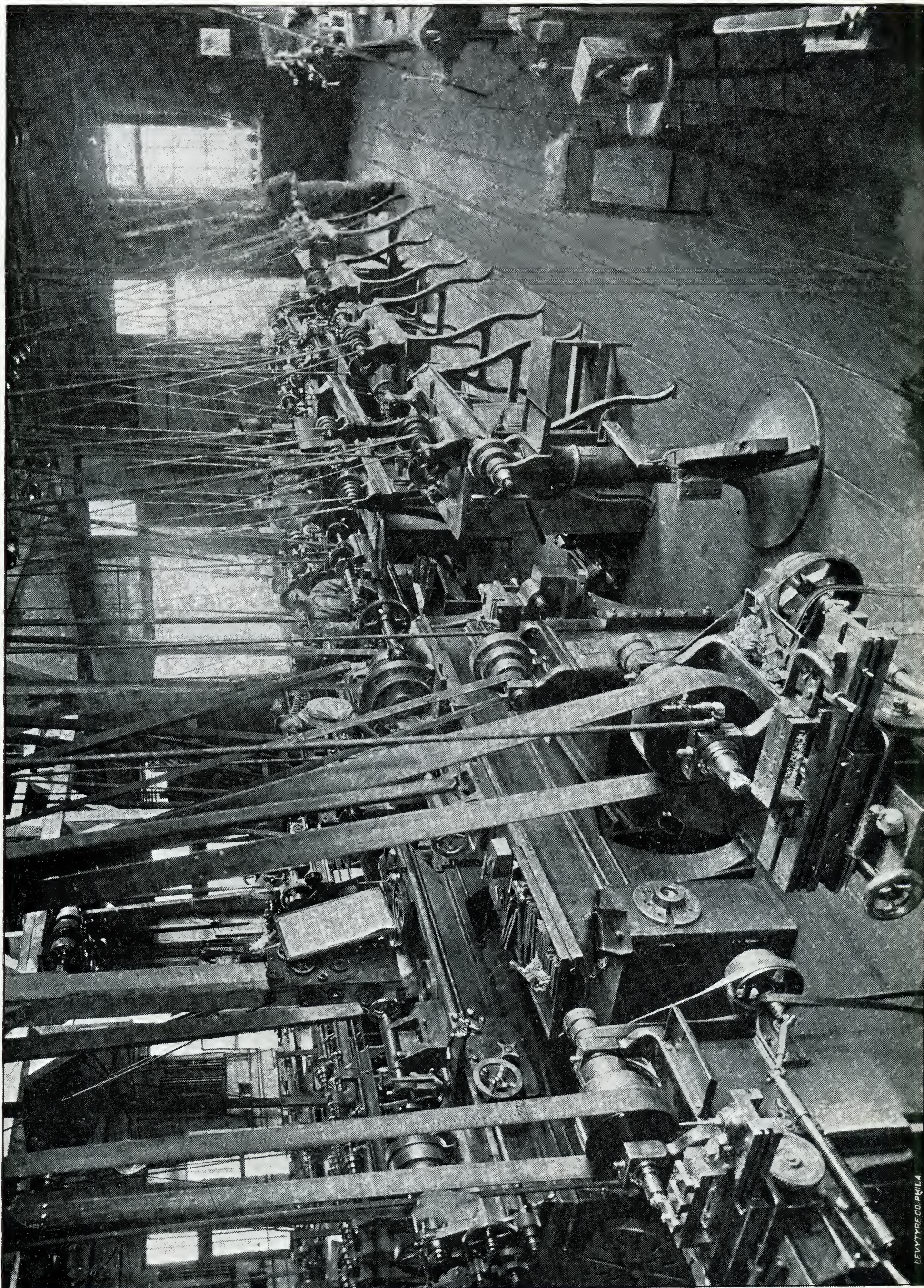
OF EVERY DESCRIPTION TO ORDER.



WE MAKE 

Adjustable Reamers

OF THE MOST SATISFACTORY TYPE.



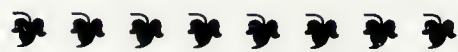
LATHE DEPARTMENT.

WE MAKE 

Speed Lathes,

Slide Rests,

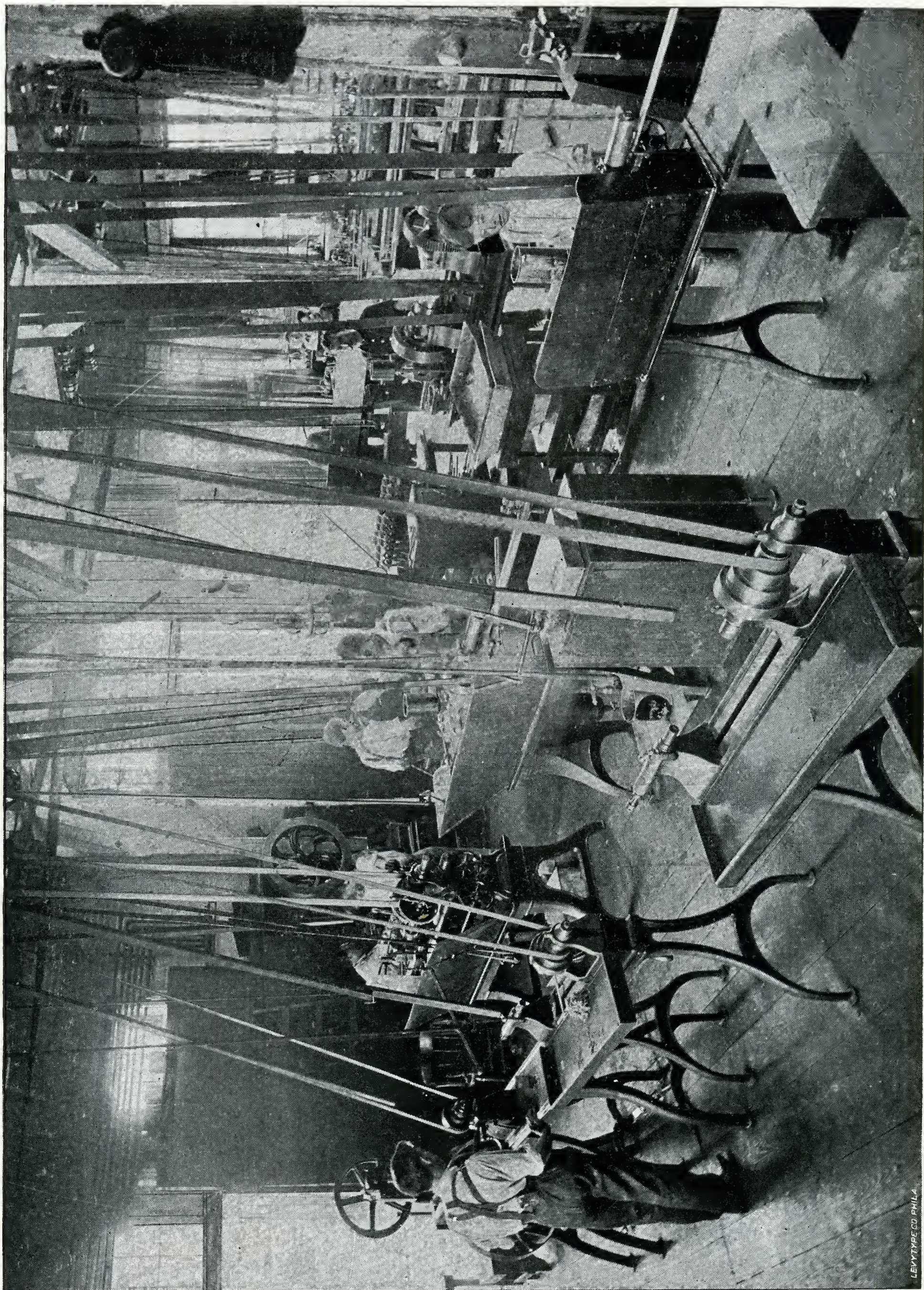
ETC., ETC.



WE ARE PREPARED 

To Do Lathe Work

OF ANY DESCRIPTION.



SCREW MAKING AND PUNCH PRESS DEPARTMENT.

LEVYTYPE CO PHILA

WE MAKE 

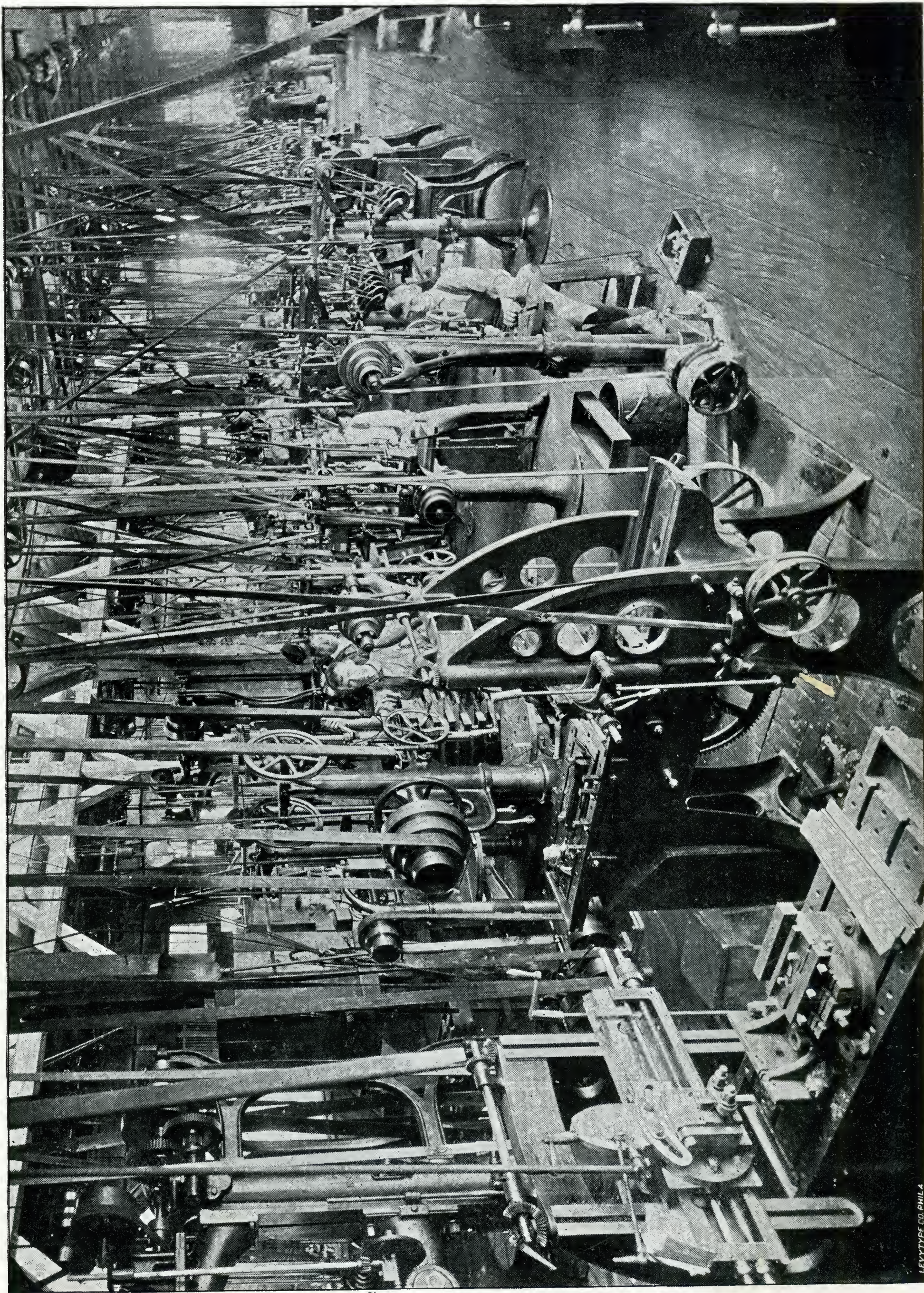
Punches and Dies

OF

EVERY DESCRIPTION

AND

FOR EVERY PURPOSE.



DRILLING DEPARTMENT.

LEVYTYPE CO. PHILA.

WE MAKE 

DRILL=JIGS

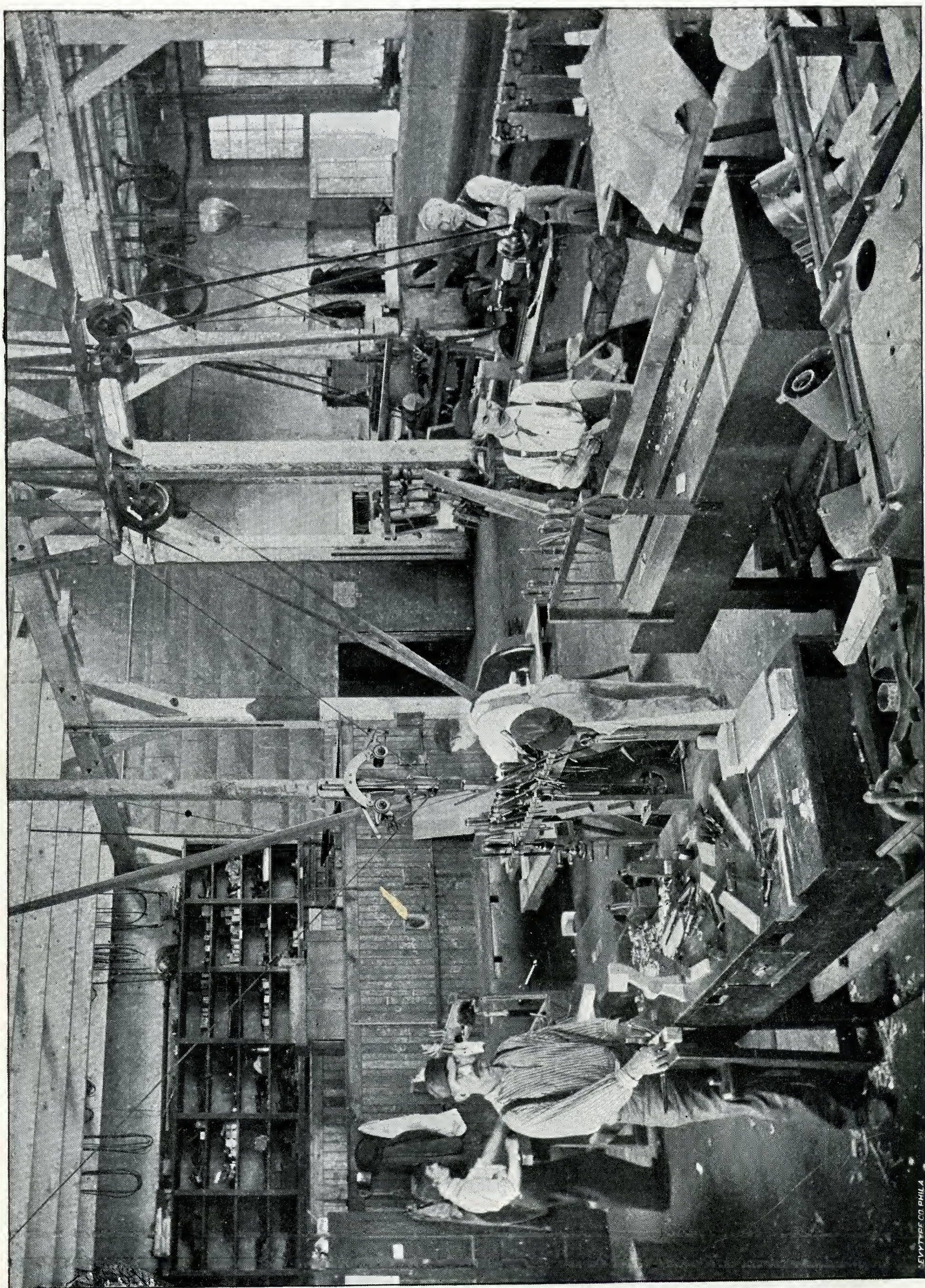
AND OTHER FIXTURES

FOR THE

ACCURATE AND ECONOMICAL

MANUFACTURE OF

MACHINE PARTS.

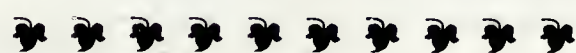


PATTERN SHOP.

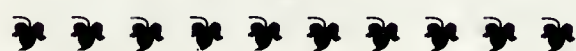
WE MAKE _____
PATTERNS.



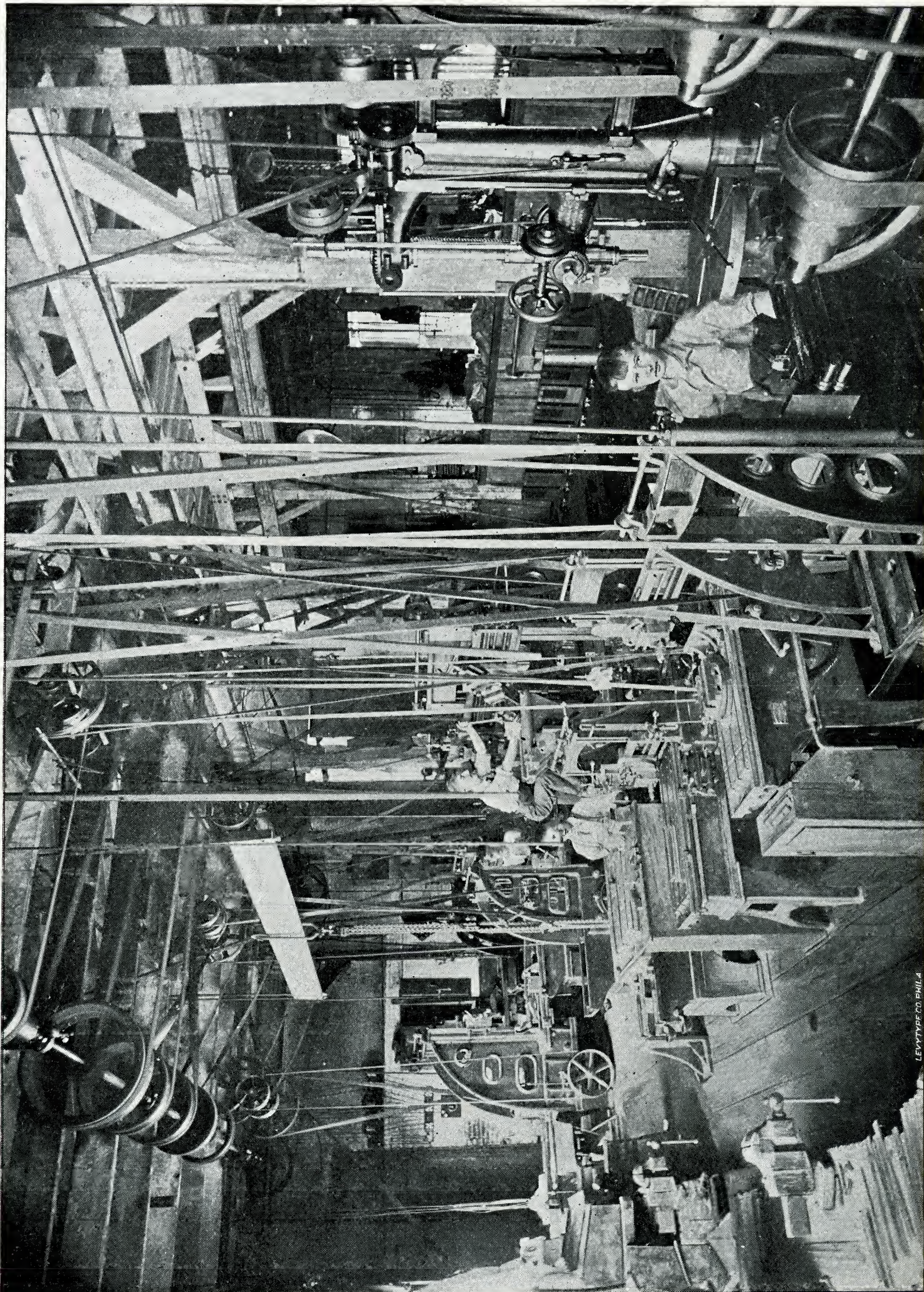
WE MAKE _____
MODELS.



WE DO _____
EXPERIMENTAL
Work.



WE DO _____
CONTRACT Work.



PLANER DEPARTMENT.

LEVYTYPE CO. PHILADELPHIA

ESTIMATES

ON

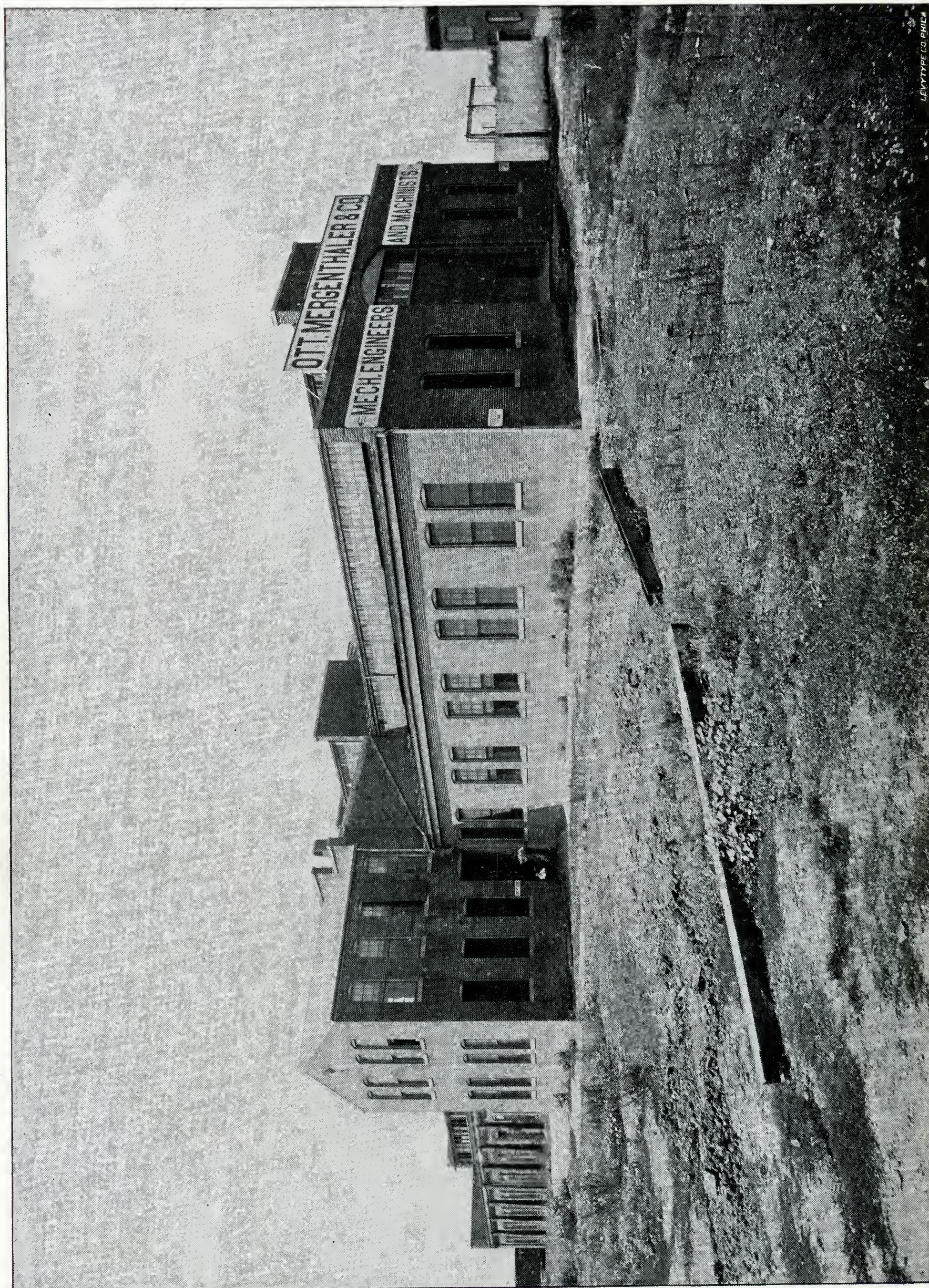
Any Class of Work,

EITHER BY

SAMPLE OR DRAWINGS,

WILL BE

CHEERFULLY FURNISHED.



FACTORY (FRONT VIEW).

OUR WORKS

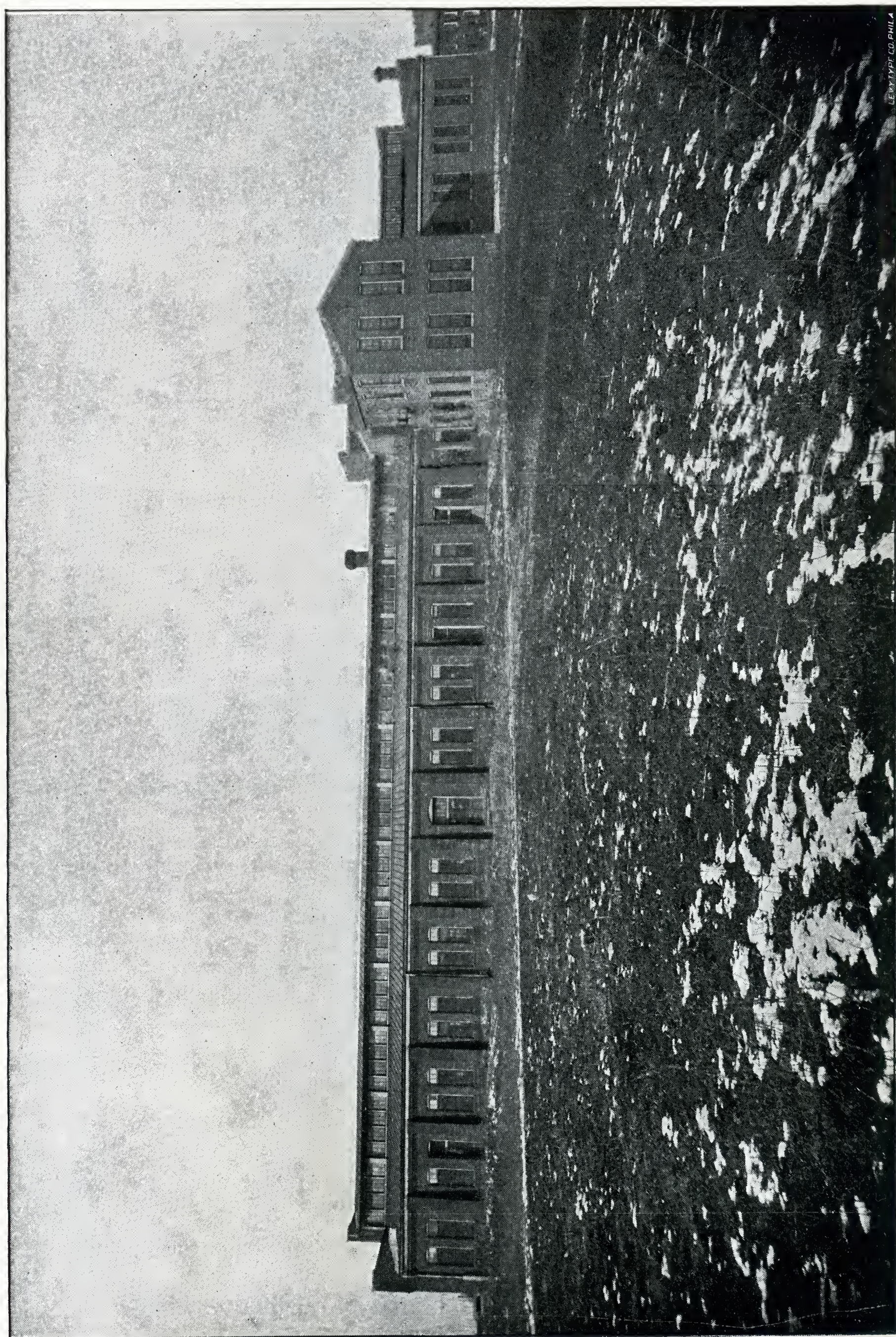
ARE ADJACENT TO

The Baltimore & Ohio
Railroad,

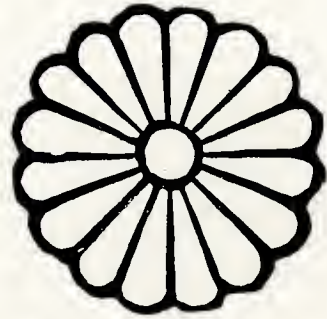
INSURING

The Most Favorable

Shipping Facilities.

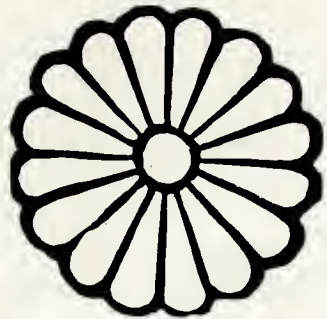


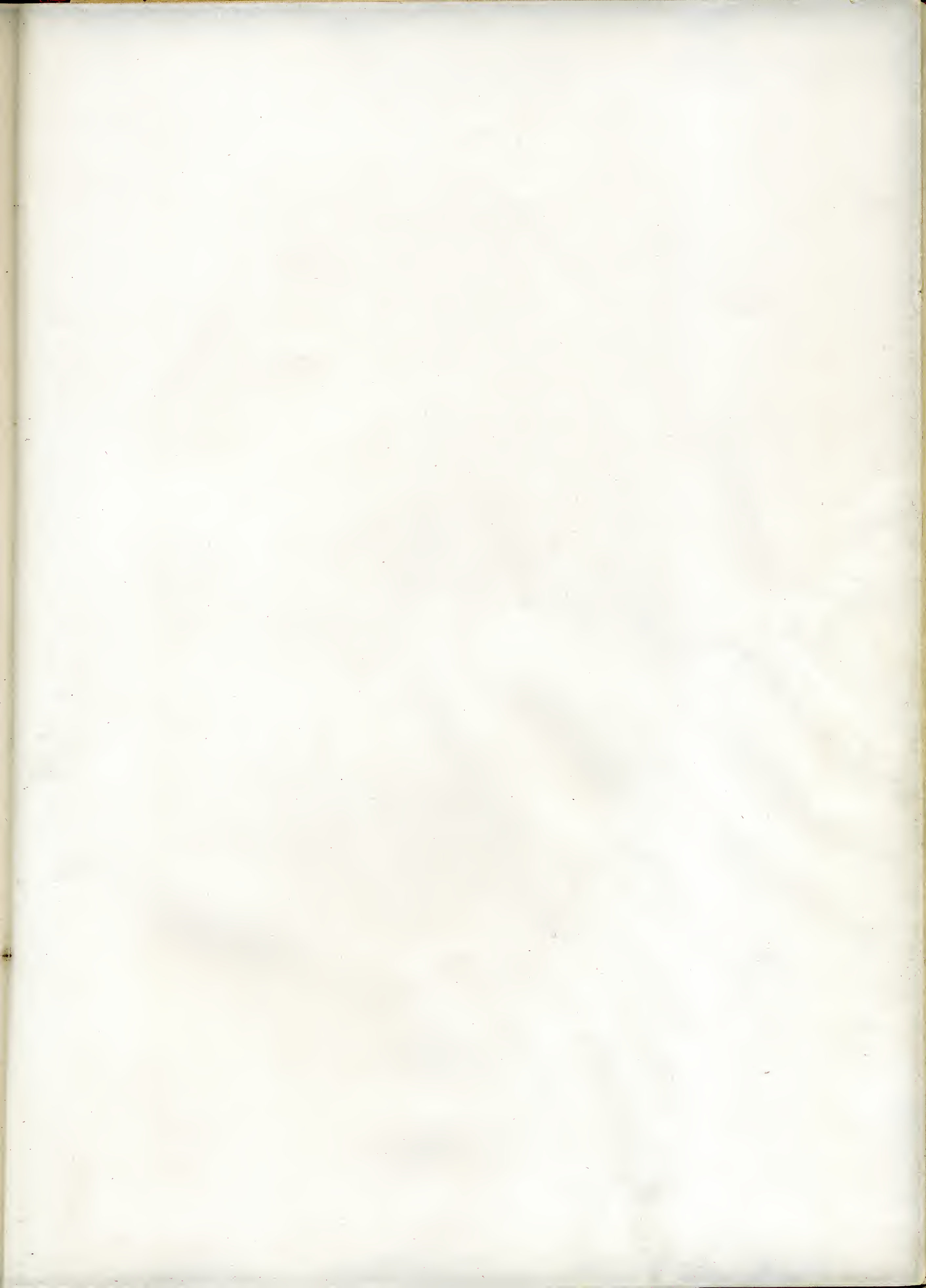
FACTORY (SIDE ELEVATION)—THE BIRTHPLACE OF THE LINOTYPE.

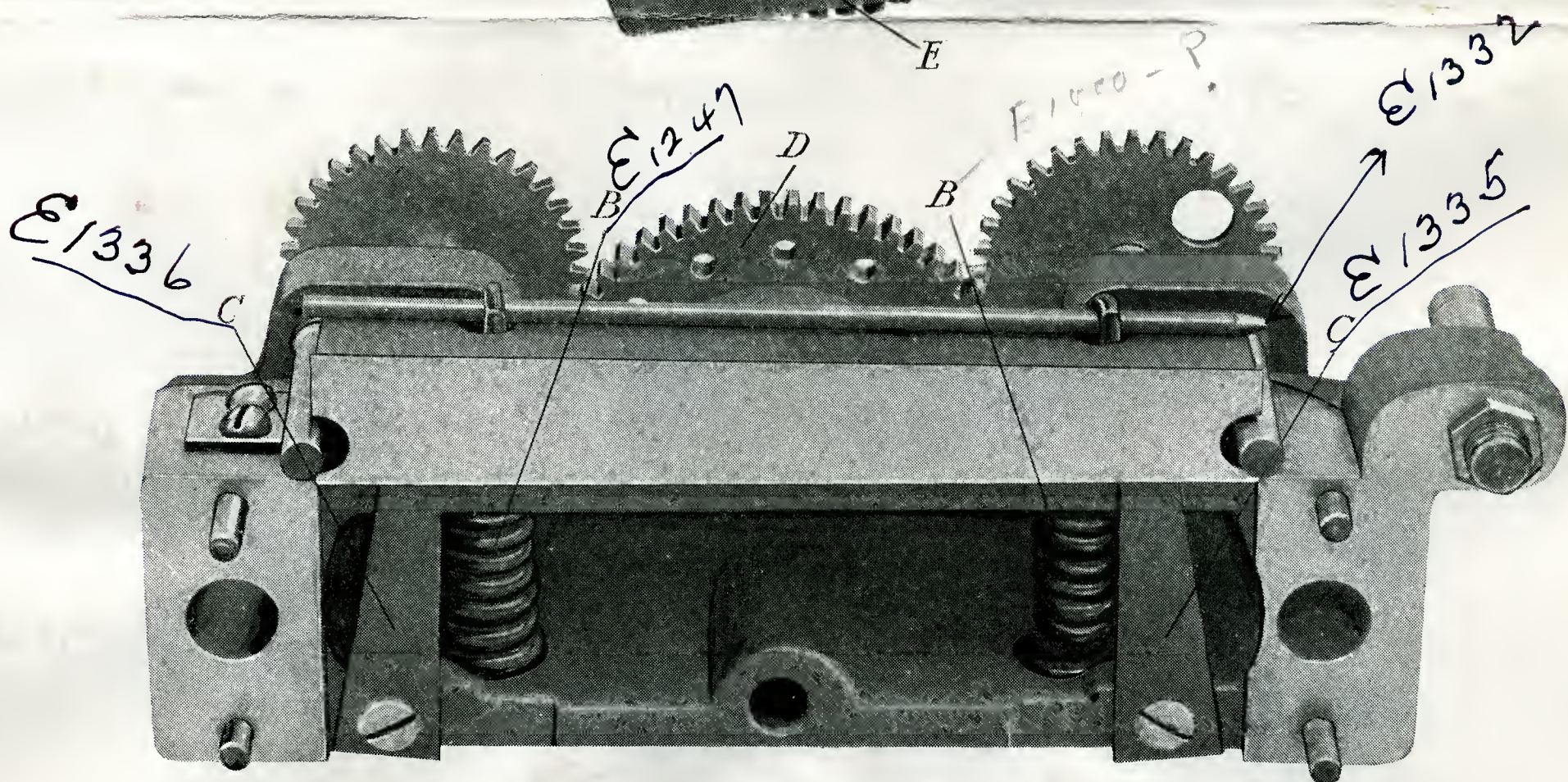
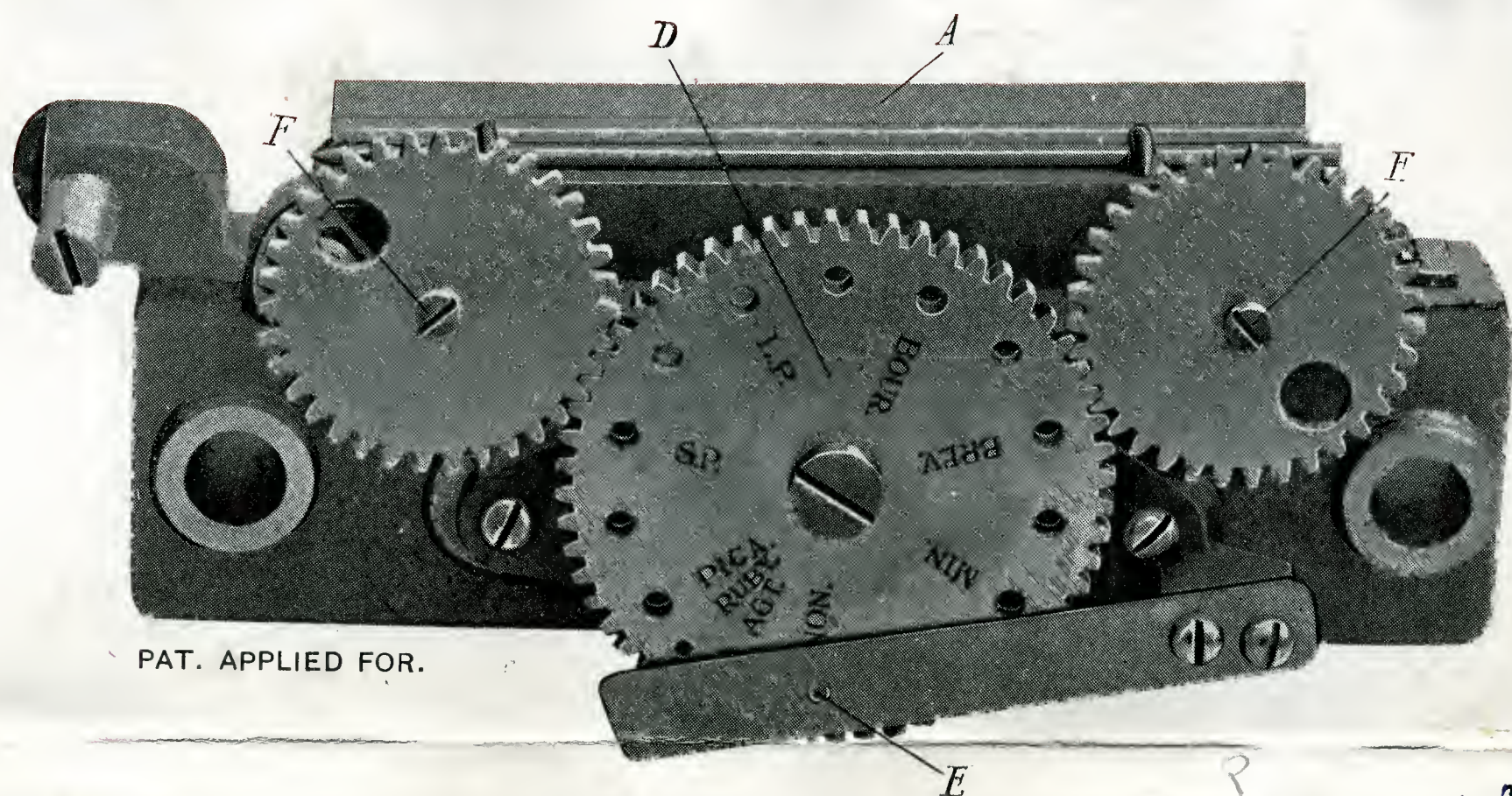


CONTENTS.

Illustrations of Linotype Machine Parts	Page 1 to 92
General Hints.....	“ 93 “ 94
Alphabetical Index of Machine Parts.....	“ 95 “ 100
Linotype Machine Improvements and } Linotype Office Implements	“ 101 “ 150
Department Views of Works	“ 151 “ 176







The illustrations show our new Adjustable Knife Block for Mergenthaler Linotype machines. The knife A is held down by the strong spiral springs B B instead of screws, and it is pressed back against the adjusting screws by the flat springs C C. The dial D is stamped with the names of the different fonts and all that is necessary for setting the knife for any body of type is to lift the stop pin E and turn the dial until the pin drops into the required hole. The intermediate holes are for leaded sizes. There are no screws to tighten, and thus the liability of error occasioned by tightening screws after the knife has been set is avoided. The screws F F furnish means of independent adjustment of the two ends of the knife.

For convenience and quick change this knife-block is superior to anything on the market.

Price, \$15.00, less usual discount. We allow \$2.00 for old knife-block if delivered to us complete, including plate 46 E.

When ordering please specify which way your knives taper, whether they are high at the upper or lower end.

OTT. MERGENTHALER COMPANY,
INCORPORATED.

BALTIMORE, MD.

PROPERTY OF EXPERIMENTAL DEPT. .. 1920

